

B. of H. & T. D. 17 JUL 1933 C. A. M. C.

CYPRUS

ANNUAL MEDICAL & SANITARY REPORT, 1931

NICOSIA:

PRINTED AT THE CYPRUS GOVERNMENT PRINTING OFFICE.

1932





CYPRUS

ANNUAL MEDICAL & SANITARY REPORT, 1931

NICOSIA:

PRINTED AT THE CYPRUS GOVERNMENT PRINTING OFFICE.

1932

DEPARTMENT OF HEALTH,
NICOSIA, CYPRUS,
31st March, 1932.

Sir,

I have the honour to submit for the information of His Excellency the Governor, and for transmission to the Right Honourable the Secretary of State, the Medical Report on the Health and Sanitary Conditions of Cyprus, for the year 1931, together with the returns, etc., appended thereto.

I have the honour to be,

Sir,

Your obedient Servant,

G. C. STRATHAIRN,

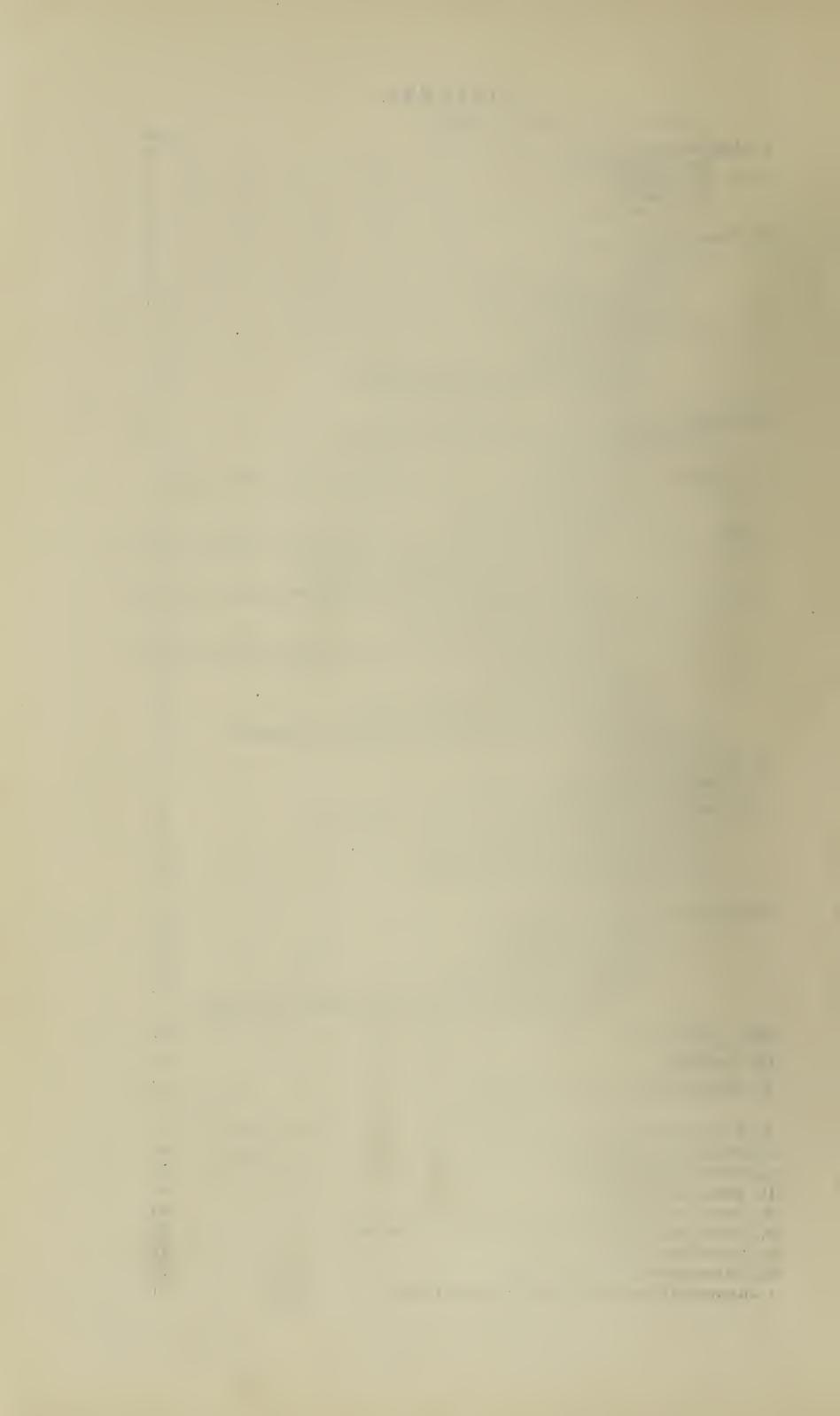
Director of Health.



The Honourable
The Colonial Secretary,
Cyprus.

CONTENTS.

T Ansenzamenta	9 7.037										PAGE
I.—ADMINISTRAT	tablishment	• •	• •	• •	• •	• •	• •	• •	• •	• •	5
(B.) Leg			• •	• •	• •		• •	• •	• •	• •	5 6
(c.) Fin			• •	• •	••	• •	• •	• •	• •	• •	7
(D.) Me	dical Stores				• •				• •		8
II.—PUBLIC HEA	LTH			• •		• •					9
	neral Remark			• •	• •	••		• •	• •	• •	9
(B.) Dis			• •	• •		• •			• •	• •	9
	grams shows			e of—							7.0
	General Dis Communica			• •	• •	• •	• •	• •	• •	• •	10 10
, ,	al Statistics				• •	• •	• •	• •	• •	• •	11
(31) 12	General Re				••	• •	• •	• •	• •	• •	11
	General Po			• •	• •		• •	• •			11
	Invaliding,						s	• •	• •	• •	12
	Invaliding,	ew., ra	anie oi	Сургі	ot Om	ciais	• •	• •	• •	• •	12
III.—HYGIENE A						• •	• •	• •	• •	• •	14
(A.) Ger	neral Review			e and .		ss mad	le	• •	• •	• •	14
	(1.) Admini	neral .		• •		• •	• •	• •	• •	• •	14 14
	` ' _	sonnel		• •		• •	• •	• •	• •		14
	(c) Fin	ancial							• •		14
	(II.) Comm					• •					15
	` '	sect-bor			• •	• •	• •	• •	• •	• •	15
		${f een}\ {f Rate}$		ne Tm	 ported	hy Go	· · vernm	ent.	• •	• •	15 17
	Re	eturn of	f Anti-	Malari	al Wo	rks car	ried or	at	• •	• •	17
		nmunic)	• •	17
	(c) He	lminthio	e Disea	ases	• •		• •	• •	• •	• •	19
	(III.) Gener						• •	• •	***	•••	20
		age Disj er Supp			• •	• •	• •	• •	• •	• •	$\begin{array}{c} 20 \\ 20 \end{array}$
	(IV.) School					• •	• •	• •	• •	• •	$\frac{20}{20}$
	(v.) Indust						• •	• •	• •	• •	20
	(vI.) Housi						• •	• •			20
(n) Mas	(VII.) Food	in relat	non to	Healt.	h and .	Disease	e	J Com	•.• :4-4:		20
	asures taken	to sprea	au me	KHOW	leage o	n mygi	iene ar	ia san	utation	• •	20
IV.—PORT HEAL!	TH WORK		•	• •	• •			• •	• •		22
V.—MATERNAL,	CHILD WELL	FARE AN	D Soc	IAL H	YGIENI	E					22
VI.—Hospitals											
VI.—HUSPITALS	Statement of			of wo	rk peri	·· formed	vearly	y	• •	• •	$\begin{array}{c} 23 \\ 23 \end{array}$
	Statistics fo				· · · F · - ·		• •	••	• •	• •	23
	Healthy Ch									• •	23
	Sanatorium		ı berc u	losis C	linic	• •	• •	• •	• •	• •	23
	Dental Clin		•	• •	• •	• •	• •	• •	• •	• •	24
VII.—CONTROL O					• •	• •	• •	• •	• •	• •	26
	(a) Medical				• •	• •	• •	• •	• •	• •	26
	(b) Medical (c) Dental I					• •	• •	• •	• •	• •	$\begin{array}{c} 26 \\ 26 \end{array}$
	(d) Pharma					••	• •	• •	• •	• •	26
	(e) Control	of Dang	gerous	f Drugs	• •	• •	• •			• •	26
		e of da		ıs drug	gs for	which	licence	es to i	mport '	were	
VIII.—METEOROI		anted.		• •	• •	• •	• •	• •	• •	• •	26
	LOGY	• • •	•	• •	• •	• •	• •	• •	• •	• •	27
IX.—Scientific	••		•	• •	• •	• •	• •	• •	• •	• •	28
X.—RECOMMEND	ATIONS FOR I	Future	Wor	ζ						• •	28
			PENI								
A.—REPORT OF S	HDOTOAT SDE			TOEB.							20
				Tare	• •	• •	• •	• •	• •	• •	29
B.—Report of V			OFFIC	ER	• •	• •	• •	• •	• •	• •	39
C.—Report of B			•	•	• •	• •	• •	• •	• •	• •	42
D.—REPORT OF A			•	•	• •	• •	• •	• •	• •	• •	54
E.—Report of S						• •	• •	• •	• •	• •	65
F.—Report of M	[C	רים וועד ברים	TOENT	MENT	PAT. HO	CDIMA	г.	• •	• •		67
	EDICAL SUP	PETH TEL	ADDEN T	, 1/11/1/14	IMD IIC	OFITAL	. .	• •			
G.—Table Show						··	••		• •		71
G.—Table Show H.—Table Show	ING STAFF .			•				• •		• •	71 72



ANNUAL MEDICAL AND SANITARY REPORT FOR THE YEAR, 1931.

I. ADMINISTRATION.

(A.) ESTABLISHMENT (INCLUDING VACANCIES), ACTING APPOINTMENTS AND PROMOTIONS.

MEDICAL STAFF.

- 1 Director of Health.
- 1 Assistant Director of Health.
- 1 Surgical Specialist.
- 1 Specialist in Venereal Diseases.
- 1 Government Bacteriologist.
- 1 Government Analyst.
- 1 Health Officer.
- 1 Medical Superintendent, Mental Hospital.
- 3 Honorary Ophthalmic Surgeons.
- 3 Honorary Dentists.
- 3 Travelling Ophthalmic Surgeons.
- 3 District Medical Officers, 1st Grade.
- 4 Medical Officers, 1st Grade.
- 27 Medical Officers, 2nd Grade.
 - 6 Medical Officers for Venereal Diseases Clinics.

ENGLISH NURSING STAFF, ETC.

- 4 Matrons.
- 6 Nursing Sisters.
- 1 Social Welfare Worker.

OTHER MEDICAL AND SANITARY STAFF.

- 1 Chief Sanitary Inspector.
- 7 District Sanitary Inspectors.
- 7 Sanitary Inspectors, 1st Grade.
- 21 Sanitary Inspectors, 2nd Grade.
- 34 Compounders.
 - 1 Accountant and Statistician.
 - 1 Medical Storekeeper.
 - 1 Assistant Medical Storekeeper.
 - 1 Storeman, Medical Stores.
- 1 Housekeeper, Nicosia Hospital.
- 8 Staff Nurses.
- 8 Male Orderlies.
- 1 Public Health Nurse.
- 12 Probationer Nurses.
- 1 Head Warder, Mental Hospital.
- 13 Mental Hospital Attendants.
- 3 Guards (Leper Farm).
- 1 Assistant to Analyst.
- 1 Bacteriological Assistant.
- 1 Attendant, Laboratory.
- 5 Government Midwives.

There are in addition to the above, Cooks, Servants, Kitchen-boys, House-maids, Ward-maids, Charwomen, Sanitary Labourers, Attendants, Messengers, etc.

CLERICAL STAFF.

- 2 Clerks, 2nd Grade.
- 1 Clerk, 3rd Grade.
- 2 Clerks, 4th Grade.
- 1 Student Clerk.

PRINCIPAL ACTING APPOINTMENTS.

Dr. R. E. Hopton, Specialist in Venereal Diseases, acted as Assistant

Director of Health from 1st January to 17th March, 1931.

Dr. E. Magnis, Medical Officer, 2nd Grade, acted as District Medical Officer from 1st to 7th January, from 8th to 27th May and from 25th September to 31st December, 1931.

Dr. H. Symeonides, Medical Officer, 1st Grade, acted as District Medical

Officer from 28th May to 31st December, 1931.

Dr. A. Josephakis, Medical Officer, 2nd Grade, acted as District Medical Officer from 23rd April to 28th June, 1931.

Miss H. Hall, Nursing Sister, acted as Matron, Limassol Hospital, from

25th June to 24th September, 1931.

Mr. L. Haralambides, Assistant to Analyst, acted as Analyst from 24th July

to 23rd November, 1931.

Mr. E. Menikefs, Clerk, 3rd Grade, General Clerical Staff, acted as House-keeper, Nicosia General Hospital, from 2nd November to 31st December, 1931.

NEW APPOINTMENTS.

Dr. Ch. Tsiros appointed Honorary Oculist, Larnaca Hospital, from 1st January, 1931.

Dr. Ch. Tornarides appointed Medical Officer, 2nd Grade, from 1st March,

1931.

Dr. Ch. Macrides appointed Honorary Oculist, Limassol Hospital, from 15th March, 1931.

Miss Mary McGrail appointed Nursing Sister from 26th June, 1931.

Mr. I. G. Marcellos appointed Honorary Dentist, Nicosia Hospital, from 1st October, 1931.

Mr. V. Diamantides appointed Honorary Dentist, Larnaca Hospital,

from 1st October, 1931.

Mr. Y. P. Michaelides appointed Honorary Dentist, Limassol Hospital, from 1st October, 1931.

Dr. Stellios G. Papadopoullos appointed Honorary Consulting Surgeon,

Nicosia Hospital, from 9th October, 1931.

Dr. A. Gavrielides appointed Honorary Consulting Surgeon, Limassol Hospital, from 9th October, 1931.

Dr. Miltiades Coureas appointed Honorary Consulting Physician, Nicosia

Hospital, from 9th October, 1931.

PROMOTIONS.

Nil.

RETIREMENTS AND RESIGNATIONS.

Dr. A. S. Millard, Assistant Director of Health, from 18th March, 1931. Dr. E. J. Blackaby, District Medical Officer, transferred to Nyasaland as from 28th June, 1931.

Miss M. L. J. Pearce, Nursing Sister, from 12th November, 1931.

Dr. R. E. Hopton, Specialist in Venereal Diseases, from 8th December, 1931.

DEATHS.

A Compounder, 4th Grade, died on 21st March, 1931.

(B.) LIST OF LAWS, ORDERS, REGULATIONS, ETC., AFFECTING PUBLIC HEALTH ENACTED DURING THE YEAR.

(B.) LEGAL.

Besides the laws mentioned hereunder, draft bills for a Quarantine Law, a Nursing Homes Law, a Midwives Law and suggestions for improving the Dental and Medical Registration Laws have been submitted.

Regulations under the Mental Patients Law and for the Quarantine Law

have been drafted.

The Municipal Corporations Law regulations and regulations for Nicosia

under the Hotel and Public Buildings Law have been reviewed

A list of laws, regulations, orders, etc., affecting Public Health promulgated during 1931, will be found hereunder.

Laws.

9 of 1931.—Cyprus Criminal Code (Amendment) Law. 14 of 1931.—Mental Patients Law.

Regulations, Orders, etc.

No. of notice in Gazette. Subject.

736. Quality of Milk.

	New Burial Grounds were	e ordered for:—
		No. of notice in Gazette. Subject.
523.	Ayios Pavlos.	622. Lemba.
764.	Kantou.	840. Nicosia (Armenian).
343.	Kelokedhara.	390. Pendalia.
578.	Kouklia.	282. Phasoula.
670.	Lagoudhera.	419. Souskiou.
390.	Lapathos.	578. Voukolida.
964.	Lapithos.	691. Yenagra.
143.	Hotels and Public Buildir	ngs Law applied to Nicosia.
1152.	. Nicosia bye-laws under	the Hotel and Public Buildings Law.
157.	Appointment of Inspector	rs under Dangerous Drugs Law.
119.	Dihydromorphinone adde	d to Dangerous Drugs Law.
108.	Appointment of Inspecto	rs under Food and Drugs Law and amends
•	schedule of poisons une	
	Bye-laws were made und	er the Municipal Corporations Law for:—
1105	. Akanthou.	749. Lefkara.
821.	Athiænou.	910, 557. Limassol.

799 & 923. Famagusta. 871. Morphou. 423, 475, 685. Nicosia. 109. Karavas. 841, 897. Paphos. 244, 282, 982. Kyrenia. 1114. Polis. 983. Lapithos.

The Public Health (Villages) Law was applied to the following villages:—

699. Khirokitia. 747. Leonarisso.

76. Asproyia.

145. Knodara.

475. Phasoula.

520. The Troödos Public Health Board Regulations.

(c.) FINANCIAL.

The total revenue of the Health and Sanitary Department as shown below, amounted to £3,216 11s. 6cp.

The expenditure of the Health Department amounted to £54,870 6s. 4cp. as compared with the total expenditure of the Island to £743,076 3s. equals 7.4%

CA.		* /0•		
		Revenue.	£	s. cp.
	1.	Sale of Medicines	882	2 5
	2.	Hospital Receipts	982	12 0
	3.	Government Analyst's and Government Bacteriolo-		
		gist's Fees	86	4 4
		Chemist's Fees	19	0 0
		Registration of Diplomas		0 0
4	6.	Quarantine Dues and Health Certificates	1,096	12 6
		Total	£3,216	11 6
		77 74.		
		Expenditure.		
1	1.	Personal Emoluments	25,115	
	2.	Other Charges	29,754	11.0
			,	
		Total	£54,870	6 4

COST ACCOUNTING.

There are few more interesting details to the medical administrator than those comparing the costs of his various activities, when they are comparable. A system was devised at the start of the year and a clerk placed in charge of this branch. The following tables give the cost of various items in Institutional expenditure and in Venereal Clinics per day-case. There are still some obvious errors to be corrected but in the main the costs are comparable.

COST PER DAY CASE OF VARIOUS ITEMS AT DIFFERENT INSTITUTIONS.

Institution	F	lood	D	rugs	Lig	hting	7	Total cost	No. of day
	-		-		-				cases
	\mathcal{S}_{ullet}	cp.	s.	cp.	8.	cp.		s. cp .	
Nicosia Hospital .	. 1	4.55	1	2.65	0	1.25		6 6.40	21,491
Limassol Hospital.	. 0	7.23	0	6.78	0	1.00		4 7.00	13,855
Leper Hospital .	. 2	4.00	2	2.70	0	0.25		10 2.93	1,105
Leper Farm	. 1	2.00			-			1 5.13	32,667
Sanatorium	. 1	7.28	0	2.58	0	0.18	• •	3 8.30	10,418
Mental Hospital .	. 0	3.94	0	0.38	0	0.25		0 8.25	61,210
Healthy Children o		<i>c</i> 99	0	A 90	0	0.10		1 6 20	0.701
Lepers' Home .	. 0	0.33	U	0.38	0	0.18	• •	1 0.30	2,781

Note 1.—The total cost includes salaries of Medical Officers, Nurses, Compounders, Housekeeper, Menial Staff, Food, Special Expenditure and Miscellaneous.

2. The large cost of the Leper Hospital is due to the small number of day cases with which to divide up the cost of £570 10s. 1cp.

State-aided Hospitals.												
Institution		Se	alarie	Food		ghting Vashir		$Total \ cost$		No. of day cases		
		C	p.		cp.		cp.		cp.			
Famagusta .		. 8	3.91		5.49		1.35		20.29		7,449	
Larnaca		. 5	5.16		3.89			• •	11.67		9,466	
Paphos		. 5	5.20		8.90				14.70		5,344	
Kyrenia		. 9	.33	• •	10.50	• •	3.56	• •	28.96		2,772	
Venereal Diseas Clinic	ве				Drugs	3 I	Lightin	g T	otal co	st 1	No. of day cases	
					_				_			
					cp.		cp.		cp.			
Nicosia	• •	• • •	• •	• •	1.70	• •	0.70	• •	4.30	• •	74,110	
Larnaca	• •	• ••	• •	• •	1.00	• •	0.30	• •	2.55	• •	58,500	
Limassol	• •	• • •	• •	• •	1.65	• •	0.80	• •	4.18	• •	37,046	
Famagusta .	• •	• ••	• •	• •	2.00	• •	0.10	• •	4.13	• •	41,340	
Paphos	• •	• • •	• •	• •	1.25	• •		• •	5.00	• •	26,537	
			(D.)) M:	EDICAL	STO	RES.					
Worki	ng of	Head			Medical			ing th	e year]	1931.		
Value of Stock Bought during				, 19		• •	• • • •	• •	• •	• •	£ 5,691 4,969	
Value of stock	on 3	${f lst} \; {f De}$	cemb	er,	1931	•	• • • •	• •		• •	£10,660 4,502	
TT 1 0 . 1		7	1									

£6,158

Value of stock issued equals

II. PUBLIC HEALTH.

(A.) GENERAL REMARKS.

The year 1931 resembles in many ways the previous year and the number of malaria cases treated is the highest on record 17,774. This is undoubtedly due to the heavy rains in the Winter 1930–31 and to unusual rains in the early Summer which twice washed out the work done in the rivers.

Practically no rain fell from the early Summer to the end of the year and it is, I think, safe to predict that malaria cases will be greatly diminished in number in 1932.

It will be seen under Hospitals and Dispensaries that the activities of the department, as far as curative medicine is concerned, are increasing yearly, but this, I think, does not point to an increase in sickness among the population except in the case of malaria. The number of persons seen by officers of the department include 92,036 out-patients, 4,772 in-patients, 48,076 children examined for spleen enlargement, 3,568 new cases at the Venereal Diseases Clinics, 252 cases at the Mental Hospital; which totals up to 138,704.

The cost of these activities was £7,554 2s. 2cp. less than in 1930.

Three dental clinics were started towards the end of the year at Nicosia, Limassol and Larnaca. An extra travelling oculist was appointed for the Paphos and Limassol Districts. One Honorary oculist was appointed for Larnaca. A Pulmonary Tuberculosis Clinic was opened in Nicosia. On the other hand, vaccinations against smallpox have diminished owing to imperfections in the system adopted at the beginning of the year. It is expected that these will be remedied this year to a certain extent.

(B.) DISEASES.

Communicable diseases are dealt with under Section III.

Cancer.—88 out-patients and 126 in-patients are recorded as compared with 61 and 105 of the previous year. In order to get better statistical records, cancer has been made a notifiable disease. See also the Surgical Specialist's Report.

Rheumatism.—The cases of acute rheumatism have increased from 652 out-patients in 1930 to 1,139 in 1931 and from 55 to 66 for in-patients. On the other hand the number of cases of chronic rheumatism has decreased.

Diabetes.—This disease is reported to be common in this Island. The figures in this Report are too small to enable an opinion to be based on them.

Affections of the Nervous System.—The figures for the Mental hospital are not included in the tables at the end of this Report. See the Report of the Medical Superintendent (Appendix F.).

Paralysis Agitans is more frequently seen in Cyprus than in any other Colony I have been to.

Eye Diseases.—Over 15,000 cases have been seen. This is slightly smaller than last year.

Lobar Pneumonia.—112 fever cases have been seen.

Ascaris.—522 out-patients are recorded as against 209.

Wounds.—By cutting or stabbing instruments are still far too high in numbers. 1,351 as against 1,121 for the previous year. As is to be expected, 67% are males.

Malaria 72.2 per cent.

(a)—General Systemic and Preventable Diseases

General and Other Diseases 24.4 per cent. Preventable Diseases 25.4 per cent. Digestive System 17.2 per cent.

Eye 15.7 per cent.
Respiratory System 9.8 per cent.

Nervous System 4.7 per cent.

Skin Diseases 2.3 per cent.

■ Organs of Locomotion 0.5 per cent.

(b)-Infectious Diseases

Gonorrhoea 9.8 per cent.

Other Diseases 7.3 per cent.

Influenza 3.8 per cent.

Syphilis 3.1 per cent.

Pneumonia 2.4 per cent.

Tuberculosis 1.4 per cent.

(c.) VITAL STATISTICS.

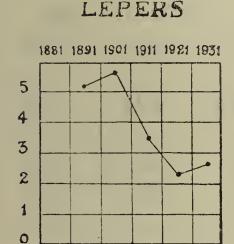
The year 1931, was a census year and there are certain interesting details that arise from a perusal of the figures of the censuses that have been held in this Colony.

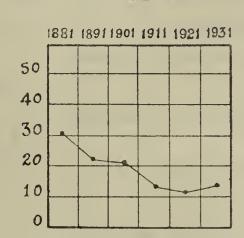
1. This is the first census that the number of females has been larger than

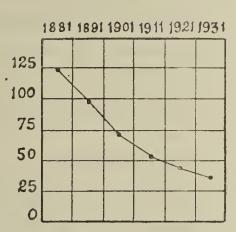
LUNATICS

that of males.

2. The rate per 10,000 of the population for Lepers, Lunatics and Blind as recorded at the various census shows an increasing diminution in numbers (exceptfor Lepers and Lunatics at the last census). See the graph swhich follow.







BLIND

With the improved attention paid to the treatment of lepers, trachoma and venereal disease, it is to be expected that the figures for Leprosy and the Blind will continue to decrease. But the same cannot be expected of the figures for Lunacy.

A proposal for establishing a Central Registry Office, which in accord with modern practice should be a Branch of the Department of Health, was submitted to Government, but financial difficulties led to its postponement.

The actual cost of the proposal would be small. We should require:—

1. A fire-proof building and shelves.

2. Registers.

3. One Reliable Clerk.

The clerical work could be arranged for in the Health Department's Office in the meantime, but it is essential to train a reliable clerk for this important office as soon as finances admit. One cannot afford to have any mistakes in this work. In the meantime, the Registers in the Commissioners' Offices should be kept on until the Central Registry is in good going order.

The subjoined tables give the Vital Statistics figures for 1931.

VITAL STATISTICS FOR 1931

		VITA	L STATISTICS	S FOR 1931	•	
District	t.		Estimated Population at 30/6/31	Birth Rate per 1,000	Death Rate per 1,000	Infantile Mortality Figure
Nicosia Larnaca Limassol Famagusta Paphos	•••		. 42,335 . 57,903 . 71,607 . 43,794	28.8 26.8 27.7 33.6 33.6 31.5	15.5 16.1 16.5 18.3 19.7 17.9	$154.1 \\ 177.0 \\ 111.9 \\ 198.6 \\ 200.0 \\ 166.2$
Total	••		348,611 For Six Prin	30.1 cipal Town	17.0	167.6
Nicosia Larnaca Limassol Famagusta Paphos Kyrenia	• • • • • • • • • • • • • • • • • • • •		10,031 4,524	21.7 21.0 18.0 18.8 20.7 25.2	14.9 14.6 13.1 11.3 15.4 16.8	$114.3 \\ 147.4 \\ 89.9 \\ 137.5 \\ 95.7 \\ 166.6$
Total	• •		. 67,756	20.3	14.0	119.3

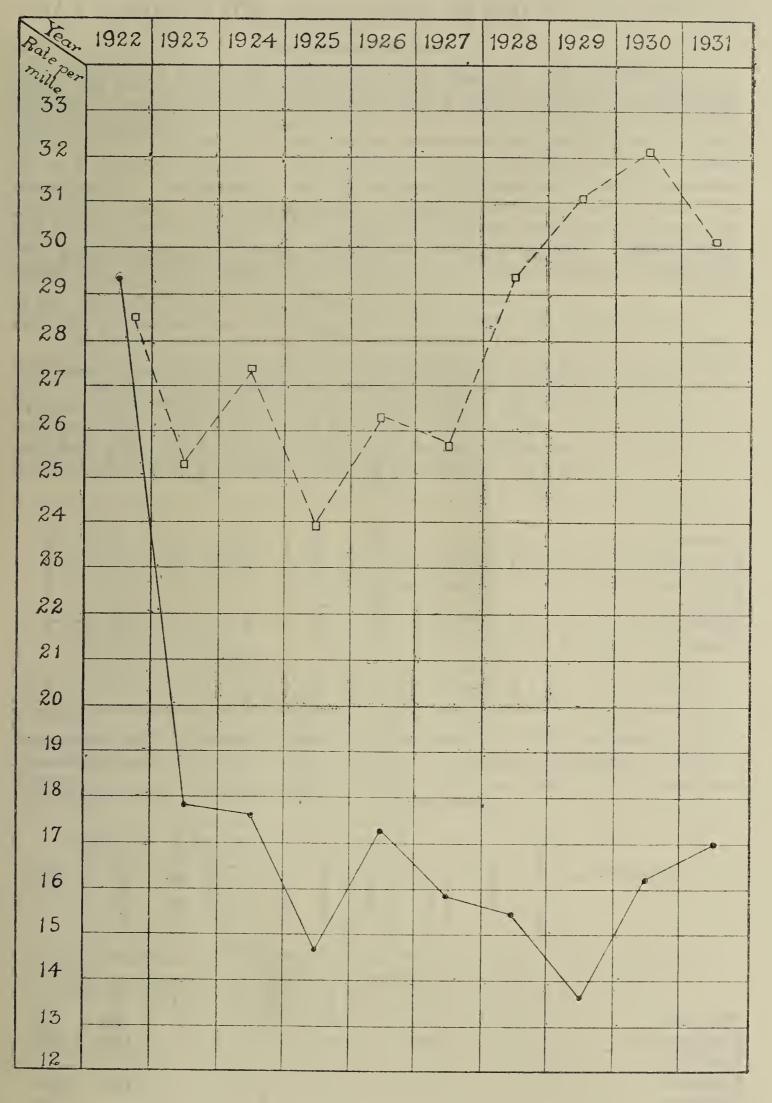
TABLE SHOWING THE SICK, INVALIDING, AND DEATH RATE OF EUROPEAN OFFICIALS.

	1929.	1930.	1931.
	_	-	
Total number of officials resident	95	106	97
Average number resident	87	95	87
Total number on sick list	38	42	39
Total number of days on sick list	371	253	343
Average daily number on sick list	1.0	0.7	0.9
Percentage of sick to average number			
resident	0.40	0.44	0.45
Average number of days on sick list for each			
patient	9.7	6.0	8.7
Average sick time to each resident	3.9	3.3	3.5
Total number invalided			
Percentage of invalidings to total residents			
Total deaths		_	
Percentage of deaths to total resident			
Percentage of deaths to total average			
number resident			
Number of cases of sickness contracted			
away from residence			

TABLE SHOWING THE SICK, INVALIDING, AND DEATH RATE OF CYPRIOT OFFICIALS.

	1929.	1930.	1931.
Total number of officials resident	3,068	3,088	2,858
Average number resident	3,054	3,073	2,846
Average number resident	1,976	2,259	2,628
Total number of days on sick list	18,218	9,271	11,152
Average daily number on sick list	49.3	25.4	30.5
Percentage of sick to average number			
resident	0.64	0.73	0.92
Average number of days on sick list for			
each patient	9.7	4.1	. 4.2
Average sick time to each resident	5.1	3.0	3.8
Total number invalided	28	13	22 .
Percentage of invalidings to total resident	0.9	0.4	0.7
Total deaths	8	6	11
Percentage of deaths to total resident	0.2	0.2	0.3
Percentage of deaths to total average	,		
number resident	0.2	0.2	03 5.
Number of cases of sickness contracted			
away from residence			

GRAPH SHOWING CORRECTED BIRTH RATES AND DEATH RATES FOR THE LAST TEN YEARS.



Death Rate per thousand.

Birth Rate per thousand:

III. HYGIENE AND SANITATION.

(A.) GENERAL REVIEW OF WORK DONE AND PROGRESS MADE.

I. Administration.

- (a) General.—An increased interest in Public Health is being shown by the Mayors of the towns with Municipal Councils, and villagers are beginning to realize the value of anti-malarial work so that some have undertaken to pay a large share of putting in permanent anti-malarial works where the Department could not spare enough to carry out the work. This public spirit is to be commended and it is hoped will spread by force of example. Arrangements are being made for Municipal Councils to undertake the prevention of breeding of domestic mosquitoes and leave the anti-malarial work in the hands of the Department. The anti-malarial work in the towns is very small. By this arrangement more money will be available for villages where it is badly needed.
- (b) Personnel.—The table subjoined gives the staff employed on this work.

		Port Health Officers	Chief Sanitary Inspectors	District Sanitary Inspectors	Sanitary Inspectors, 1st Grade	Sanitary Inspectors, 2nd Grade	Quarantine Sanitary Inspectors, 2nd Grade	Government Midwives	Sanitary
Nicosia Larnaca Limassol Famagusta Paphos Kyrenia Colony	 • •	1 1 1 —		1 1 1 2 1	3 1 1 1 —	$egin{array}{cccccccccccccccccccccccccccccccccccc$		1 1 1 1 1	1 1 1 1 1 1
Total	 • •	3	1	7	7.	15	6	6	6

(c) Financial.—The following amounts were expended in the prevention of disease and other sanitary matters during the year by the bodies mentioned.

		ADM	IINISTRA	TION		a	es			
Municipalities	Health Officers	Dentists	Sanitary Inspectors	Public Health Nurses	Clerks, Messen- gers, etc.	Cleansing	Infectious Diseases Prevention	Child Welfare	Conservancy	Total
Athiænou	£ 48 - 72 - 72 132 -	£	£ -69 48	£	£ 16 — — — — — — — — — — — — — — — — — —	£	$ \begin{array}{c c} £ \\ -4 \\ -\\ -\\ 201 \\ 4 \\ 11 \\ 16 \\ -\\ 16 \\ 2 \end{array} $	£ 37 72 85	£ 12 1,196 — 194 — 781 — 70 2,352 3,000 187 58	$ \begin{array}{c c} £ \\ 12 \\ 1,333 \\ \hline $

II. COMMUNICABLE DISEASES.

Stricter notification has been called for in 1931. A series of 25 post cards in book form with counterfoils attached, and with a list of the notifiable diseases on one cover and the legal penalty for not notifying on the other, has been issued to every registered practitioner in Cyprus. I am not, however, satisfied that we are yet getting information of all the cases that should be notified.

(a) Insect-borne Diseases.

Malaria.—The year was the worst on record for over twenty years. 17,774 cases are on record which forms 19.2% of the out-patients or 18.3% of the combined total of out-patients and in-patients.

The heavy rains noted in 1930 continued for the first half of 1931 and unusual rains swept away twice the anti-malarial work done in the rivers. From June to December there was scarcely any rain and very little up to the date of writing this Report. It may, therefore, be safely predicted that the numbers of cases will be small for 1932. Seven cases of Blackwater are reported. No reliability can be placed on the differential diagnosis of the Medical Officers as practically no blood examinations are made.

ABSTRACT OF SPLEEN RATE RETURNS FOR OCTOBER, NOVEMBER AND DECEMBER, 1931.

Distri	ct		Total Examined	1	3	6	9	Spleen Rate	Average
Nicosia Larnaca Limassol Famagusta Paphos Kyrenia		• •	15,413 6,226 7,943 9,558 5,519 3,417	13,897 5,380 7,183 8,368 4,325 2,885	1,154 619 496 972 649 528	222 148 217 195 377 4	140 79 47 23 168	10.0 13.5 9.5 12.4 21.6 14.5	1.4 1.5 1.4 1.4 2.0 1.4
Total	• •	• •	48,076	42,038	4,418	1,163	457	12.5	1.5

Table showing the Number of Centres examined in each District, the Number with Normal Spleens and those having from 1-100% Spleen Rate in 1931.

District	Normal Spleens	1-5 %	6–10 %	11-20	21-30 %	31-40	41-50	51-60	61-70	71-80	81-90	91-100	Total number of centres
Nicosia	15	38	23	26	16	13	6	6	9	4	4		160
Larnaca	1	7	10	17	9	5	3	3	1		1	1	58
Limassol	13	11	16	26	21	11	6				_		104
Famagusta	1	19	14	27	13	8	6	\ —	2	3	2	1	96
Paphos	7	5	8	27	19	12	19	7	11	3	6		124
Kyrenia	1	3	4	13	11	6	2	1		1		-	42
Total	38	83	75	136	89	55	42	17	23	11	13	2	584

ABSTRACT OF SPLEEN RATE FOR THE AREA UNDER EACH MEDICAL OFFICER FOR THE YEAR 1931.

Station		Total number of Children examined	Enlarged Spleens	Spleen Rate
District Medica	l Officers.			
Nicosia		7,385	304	4.1
T	• • • • • • • • • • • • • • • • • • • •	3,114	399	12.8
[imagga]	• • • • • •	2,684	115	4.1
Famagusta	• • • • • • • • • • • • • • • • • • • •	1,772	52	2.9
Paphos	• • • • • • • • • • • • • • • • • • • •	1,629	166	10.1
Kyrenia		2,702	395	14.5
Lyronico	• • • • •	2,102	000	11.0
Medical Offic	ers.			
Morphou		2,054	351	17.0
r . m -	• • • • • •	1,808	231	12.7
Lythrodonda		820	93	13.0
ກັ້ວໄດ້ໄດ້ຕ	• • • • •	974	40	4.0
Pyrgos		417	32	7.6
Palæokhorio		815	45	5.5
Klirou		873	225	25.7
Lefkara		1,787	170	9.5
Athiænou		1,184	286	23.6
Agros		804	27	3.2
۸		1,199	150	12.5
Episkopi		372	94	25.2
ر المارية	• • • • •	842	157	18.2
Kilani		1,427	139	10.0
Varaca		380	70	18.4
Lefkoniko	• • • •	3,185	235	7.4
Leonarisso		2,380	257	10.7
7-4:1:		1,314	375	28.5
Alabas		1,479	383	25.8
Valalradhama		873	268	30.6
Polis	• • • • •	784	164	20.9
Stroumbi	• • • • •	1,108	225	20.3
Statos	• • • • •	594	199	33.5
Lyso		477	172	36.0
Myrtou	• • • • • • • • • • • • • • • • • • • •	840	219	19.1
Total		48,076	6,038	12.5

ABSTRACT OF SPLEEN RATE RETURNS OF THE SIX TOWNS FOR THE YEAR 1931.

Town	Total number Examined	Enlarged Spleen	Spleen Rate	
Larnaca	3,934	59	1.4	
	1,849	63	3.4	
	2,412	83	3.4	
	1,175	26	2.2	
	714	29	4.0	
	429	40	9.3	

DETAILED FIGURES OF IMPORTANT ANTI-MALARIAL WORKS CARRIED OUT.

	Nicosia	Larnaca	Limassol	F'gusta.	Paphos	Kyrenia
River beds, drains, streams,						
dealt with and new drains made, in miles	446	597	288	111	010	00
Wells covered, filled and	440	997	200	$11\frac{1}{2}$	819	92
oiled	7,481	7,219	2,489	2,278	85	3,674
Tanks stocked with fish	12	103		43	135	88
Premises inspected	198,967	156,146	120,712	131,494	95,330	55,276
Number of visits to villages				3		
by Sanitary Staff	3,108	1,551	1,688	1,445	3,558	759
Paris Green used ltb	109	134	139	214	$205\frac{1}{2}$	$12\frac{1}{2}$
Gas Oil used tons	$8\frac{1}{2}$	7 1/2	8	6	$7\frac{3}{4}$	
		-			+	

QUININE IMPORTED INTO CYPRUS BY THE GOVERNMENT EACH YEAR FROM 1927–1931.

	Qui: Hydro		Quir Sulp		ds ne Hy- grs. II	abloids uinine ydrochlor ss. III.	ids ne ochlor	ds ne as	ds ne ns ss I.	ds ne ss	ds s
Date	tb.	oz.	tb.	oz.	Tabloids Quinine drochlor gr	Tabloids Quinine Hydroch grs. III.	Tabloids Quinine Hydrochlor grs. V.	Tabloids Quinine Sulphas grs. II.	Tabloids Quinine Sulphas grs. III.	Tabloids Quinine Sulphas grs. V.	Tabloids Quinine Tannas grs. II.
1927 1928 1929 1930 1931	88 20 12 18	8 13 8 12 —	635 716 537 754 1,196	13 11 8 —	5,000 — 5,000 —	24,000 5,000 10,000 20,000	10,300 10,000 20,000 30,000	32,000 73,000 60,000 120,000	55,250 76,000 120,000 120,000	101,000 128,000 120,000 200,000	

(b) Communicable Diseases other than at (a) and (c).

Plague.—No case of plague occurred in 1931. To conform with the requirements of the International Sanitary Convention rats have been caught in small numbers at the main ports and spleen smears and gland smears (if available) have been sent to the Laboratory. All these were examined and proved negative for plague. Collections of fleas caught off these animals were submitted at the same time. (See Appendix C.)

Smallpox and Vaccination.—No case of smallpox occurred in 1931.

The posts of two travelling vaccinators were abolished in 1931 and the work was taken up by the Sanitary Inspectors and Medical Officers. The Sanitary Inspectors are fully occupied in Summer with anti-malarial measures and the general idea was that they could concentrate on vaccinations during the Winter months when vaccine keeps longer owing to the colder temperature.

The number of vaccinations performed was 2,892 as shown in the subjoined table.

	Primar	y Vaccina	utions	Revaccinations.
Successful	• •	788		35
Unsuccessful	• •	245	• •	240
Not accounted for	• •	1,206	• •	378

The number of vaccinations is much less than for 1930, but it is hoped to recover ground during the coming year.

Pulmonary Tuberculosis.—318 cases have been notified in 1931, of these 199 were males and 119 females. The following tables give the details collected from the Notifications forms.

```
Cases by Districts: Nicosia
                                                      39
                                        Larnaca ...
                                                             Limassol
Cases per 10,000:
                                  9.1
                                                       9.8
                                                                      ..9.9
                                        Paphos ...
                                 42
Cases by Districts: Famagusta
                                                     67
                                                            Kyrenia
                                   5.8
                                                      14.0
                                                                          4.9
Cases per 10,000
                                                                          29
Cases by months: Jan.
                            20
                                  April
                                        30
                                              July
                                                      .. 25
                                                               October...
                  February 21
                                        31
                                              August .. 39
                                                              November 16
                                  May
                  March
                            24
                                  June 24
                                              September 45
                                                              December
                         Cases by Age—Sex Groups.
                                                    38-
                                 15-
                                        20-
                                              25-
                                                         48-
                                                                          75
                   0-5
                             10-
                                                               55-
                                                                     65-
                         2
                              3
                                                    37
Male
                                   14
                                        49
                                              53
                                                          25
                                                               10
                                                                      4
                                                                      2
                         2
                              3
Female
                                   19
                                        31
                                              21
                                                    30
                                                         10
                                                                1
Cases by Nationality: British .. 0. Greek .. 227. Turk .. 87.
                                                                   Other..4.
THE FOLLOWING TABLE SHOWS THE NUMBER OF CASES NOTIFIED SINCE 1914.
    1914
                122
                              1920
                                                        1926
                                                                    296
                                           95
    1915
                              1921
                                                        1927
                 89
                                           99
                                                                    305
    1916
                              1922
                                                        1928
                164
                                          108
                                                                    338
    1917
                152
                              1923
                                          132
                                                        1929
                                                                    594
    1918
                              1924
                                                        1930
                128
                                          179
                                                                    305
    1919
                              1925
                                                        1931
                130
                                          341
                                                                    318
    Dysentery.—182 cases were reported, of these 100 were males and 82
females. As in 1930, a small epidemic broke in the Troödos hills.
case was reported on the 2nd of June and 29 cases of the 32 cases that occurred
were notified during June. Bacillus shiga was the cause of the outbreak.
     The following tables show the details taken from the notifications cards.
                                            Larnaca .. 16 Limassol .. 48
Cases by Districts:
                     Nicosia
                                     71
                                    14
                                            Paphos .. 31 Kyrenia
                     Famagusta
                                               July
Cases by Months:
                     Jan. ...
                               9...April ... 9
                                                      14
                                                          October
                     Feb. ..
                               8...May ...18
                                               Aug.
                                                      15
                                                         Nov.
                                                                         15
                     March
                               3...June ...50
                                                      16 Dec.
                                               Sept.
Cases by Nationality: British ...
                                     Turk ...
                                              32. Greek .. 147. Other 1.
                                 2.
                           Cases by Age—Sex Groups.
                            0-5 5- 10- 15- 20- 25- 35- 45- 55- 65-
                                                                         75
                                              3
Male
                            28
                                 11
                                     7
                                          6
                                                  14
                                                       9
                                                           10
                                                                6
                                                                     5
                                                                         1
Female
                            23
                                 11
                                     5
                                          4
                                              4
                                                  14
                                                      10
                                                                4
                                                                     1
                                                            6
     The Enterica Group.—Cases notified each year from 1911.
                                                        1925
     1911
                299
                               1918
                                          611
                                                                    175
     1912
                447
                               1919
                                          439
                                                        1926
                                                                    123
     1913
                338
                               1920
                                          395
                                                        1927
                                                                     95
                               1921
     1914
                341
                                          360
                                                        1928
                                                                    139
                267
                               1922
                                          346
                                                        1929
     1915
                                                                    178
                376
                               1923
                                          314
                                                        1930
                                                                    145
     1916
                               1924
     1917
                                          200
                                                        1931
                491
```

I think it would be correct to consider that this disease is decreasing in Cyprus due no doubt to the increasing interest in, and the improvement in Sanitation, throughout the Colony. At the beginning of this year we had the "tail end" of the Arghaki epidemic which was reported last year, and we had a similar outbreak at Kythræa this Autumn. Similar measures to those taken at Arghaki were put in force in Kythræa and the temporary hospital at the time of writing this (10th January) has only 2 cases. There is no doubt that delay in the notification of early cases allowed both these epidemics to get larger than they should have. In Kythræa and the surrounding villages 37 cases occurred; at Lakkatamia another focus 18, and at Morphou 25. The number of cases notified in Nicosia was 15.

The following tables give the details taken from the notification cards for 1931. The number of cases notified in 1931 was 94 male, 85 female, making a total of 179.

Nicosia .. 108 Cases by Districts: Larnaca .. 20 Limassol .. 23 Famagusta 4 Paphos .. 23 Kyrenia .. 1 Cases by Months: Jan. . . 14 April . . 2 July .. 22 Oct. . . 29 Feb... 6 May .. 5 Aug. . . 37 Nov... 16 June .. 7 March 2 Sept. . . 24 Dec. . . 15

Cases by Nationality: British . . 1. Turk . . 32. Greek . . 143. Other 3.

Cases by Age—Sex Groups.

The number of antityphoid inoculations given was 1,188.

Paratyphoid A.—Ten cases are recorded from Nicosia District. Of these, 5 were male and 5 were female.

Paratyphoid B.—Two cases are recorded, both from Nicosia District.

Trachoma.—7,824 cases were seen during 1931 as compared with 8,553 of the previous year.

Glanders and Rabies.—My attention has been drawn by the Chief Veterinary Officer to entries under these headings in last year's Table of Diseases.

No case of these diseases has ever been seen in Cyprus, and there must have been an error in diagnosis.

(c) Helminthic Diseases.

Schistosomiasis.—The village of Syrianokhori is the centre of a small area where this disease is found in Cyprus. It is a village of about 300 inhabitants situated near a malarious river in close proximity to swamps. The gardens at and near it belong to persons living in the village or to persons living about 3 miles away at Morphou—the largest village in the Island outside the main towns.

It was not surprising to discover that ten out of the 14 new cases treated this year came from Morphou. No cases have been reported up the Ovgos or Serrakhis river.

Foundin was the drug chosen this year and proved more satisfactory from the patients' and doctors' point of view. In 1930 we chose the Spring as the season for our campaign and in 1931 the month of December was selected. Dr. Atta who has conducted both these campaigns is very definitely in favour of the Spring time as there are less "colds" about and the patients have recovered more from their malaria of the Summer. It is proposed to repeat this campaign in April of 1933.

Twenty-six cases underwent treatment, of these 23 completed a full course, two had half a course each and one got giddy after the first injection and discontinued it after this injection. This is an improvement on 1930 and proves that the people are slowly beginning to realize the value of the campaign. All the cases that had full treatment last year, were re-examined and found free from ova. Scanty blood cells were found in some and seven had full course of "Fouadin."

The infection of the Morphou cases was traced to a pool where they used to go and bathe in Summer. The result of these two campaigns reflect credit on Dr. Atta, who by his tact and methods, is gradually raising an interest in this disease. Twenty-three persons out of the 217 examined in the two campaigns have not submitted themselves for treatment.

Ascaris Lumbricoides.—The increased number of cases reported this year has already been mentioned.

III. GENERAL MEASURES OF SANITATION.

Sewage Disposal.—Forty-three sanitary latrines have been erected at schools and teachers residences during the year, and in addition to these, 8 single and 4 double latrines have been built by the department as models.

Last year we were faced with the difficulty caused by the dislike of the Moslem population to handling the covers of the holes. This was got over by a method which ensured that whenever the door opened, the lid opened at the same time. It has been found, however, much more important to ensure the automatic closure of the lid and this has been done by making the lid fall whenever the door is opened, and a separate contrivance enables the user to open the lid without touching it. These mechanical contrivances are not altogether satisfactory.

Water Supply.—A very full survey with both Chemical and Bacteriological analyses has been conducted during the later part of the year and this will be continued until twelve monthly examinations are completed.

We should get some useful data from these.

Sanitary Inspections.

District.

Nicosia						3,108
Larnaca						1,551
Limassol	• •		• •			1,688
Famagusta						1,445
Paphos						3,558
Kyrenia	• •	• •	• •	• •	• •	759
m 1						10.100
Total	• •		• •	• •		12,109

IV. SCHOOL HYGIENE.

A start has been made with the examination and treatment of children in the School Dental Clinics (see under Hospital and Dispensaries).

V. INDUSTRIAL HYGIENE.

The mining industry has been stagnant most of the year and little has been done save routine inspections and anti-malarial work. Much remains to be done at the smaller factories.

VI. Housing and Town Planning.

I have nothing to add to the report made last year. An inspector whose salary could be found out of fees for inspection is needed. It is also time to provide some training in plumbing.

VII. FOOD IN HEALTH AND DISEASES.

A large number of samples have been taken and we are, I think, now in

a position to lay down standards for Cyprus produce.

Considerable difficulty has been experienced in the matter of prosecutions and the procedure to be followed. I think it will be advisable to make the District Sanitary Inspector the prosecutor in these cases.

(B.) MEASURES TAKEN TO SPREAD THE KNOWLEDGE OF HYGIENE AND SANITATION.

School for Sanitary Inspectors.

The first session was opened on the 12th January and continued to the 23rd March. Forty-three candidates sat for the preliminary examination. Twenty-three pupils were selected. These came under the following classification.

Department of Health	 		9
Police	 		2
Forest	 • •		2
Colonial Secretary's Office	 ·		1
Cyprus Mines Corporation			1
Private Students			8
		•	

The following lecturers and instructors undertook the teaching of subjects mentioned:—

Dr. Blackaby... Refuse disposal; Rural Hygiene; Tropical Infectious Diseases.

Bacteriology. Dr. Gosden Mr. Papachrysostomou Entemology. Mr. Roe Food Hygiene.

Sanitary Law; Building Construction; Dr. Strathairn

Quarantine; Sewage disposal; Water;

Miscellaneous.

Map Making and Reading. Mr. Serghides

Leprosy. Dr. Symeonides Trachoma. Dr. Tahsin

Dr. Willimott Chemistry and Physics; Meteorology;

The Chief Sanitary Inspector, Mehmet Aziz, gave instruction in office methods and supervised the field training.

Models, diagrams and lecture room equipment to the value of £150 were provided from a grant by Government.

Ten of the students obtained the Sanitary Inspectors Certificate from the Royal Sanitary Institute and six others passed for the local Certificate.

The following were appointed a Board of Examiners for Cyprus by the Royal Sanitary Institute:—

Dr. G. C. Strathairn, M.B., Ch.B., D.P.H., Director of Health, Cyprus. A. A. P. D. Stone, O.B.E., F.S.I., A.M.I.C.E., M.I.M. & Cy.E., A.M.I., Mech. E., Director of Public Works, Cyprus.

R. J. Roe, M.R.C.V.S., D.V.S.M., Chief Veterinary Officer, Cyprus. H. M. Morris, M.Sc., F.E.S., Government Entomologist, Cyprus.

Dr. E. J. Blackaby, M.R.C.S. (Eng.), L.R.C.P. (London), D.T.M. & H., District Medical Officer, Nicosia, Cyprus.

Dr. Minnie Gosden, M.B., B.S., M.R.C.S. (Eng.), L.R.C.P. (London), Government Bacteriologist, Cyprus.

Dr. S. G. Willimott, B. Sc., Ph.D. (Cantab.), Ph.D. (Liv.), A.I.C., Government Analyst, Cyprus.

Hon. Local Secretary: Dr. G. C. Strathairn.

Cyprus is now an examining centre for candidates from Palestine and Egypt.

In concluding this section of the Report, I desire to thank all those Government Officers who assisted to make this session the success it was. Only those who have experienced it know the amount of extra work entailed in getting lectures and demonstrations prepared.

Health Lectures.

A series of lectures was delivered to the Turkish teachers and senior students during the Bairam holidays at Nicosia and another series in Summer to the Greek teachers and senior students at Limassol. For details please see the Social Worker's Report (Appendix E.)

Dr. Atta Hikmet gave lectures and distributed pamphlets on Bilharziosis during the campaign at Syrianokhori in December.

A travelling Cinema show has been made use of at some of the villages near Nicosia but we hope to be able to take it further afield this Summer. It consists of an Acme Projector full size and a Homelite Generator and cost under £100. It can easily be packed into the back of a four seater car.

The films which the department has at present are:—

3 Malarial Reels; 2 Venereal Disease Reels; and 2 Mosquito Reels.

Course in Chemistry.—The Government Analyst delivered a full series of lectures on Chemistry organic and inorganic. This course is compulsory for all student compounders.

IV. PORT HEALTH WORK AND ADMINISTRATION.

The subjoined table shows the number of visits made to vessels during 1931:—

District		Seaplanes		Steamships	,	Sailing Ships	Total
							_
Famagusta		6		181		196	377
Limassol		4		202		224	430
Larnaca				172		141	313
Karavostass	i			64		40	104
Paphos				1	• •	114	115
Kyrenia	• •			2		60	62
Polis					• •	1	1
	• •	_	• •		• •	i ii	1

Note.—His Majesty's Navy and Airships have not been recorded.

V. MATERNAL, CHILD WELFARE, AND SOCIAL HYGIENE.

MATERNAL WELFARE.

The training of midwives continued during the year. Dr. Fraser conducted the lectures at Famagusta during October and the examinations were held in November. Nineteen pupils attended the classes and 17 passed.

During the year, 21 pupils started training, of these one resigned of her

own accord and 18 pupils received the Government Certificate.

The Government midwives with their pupils attended to 383 confinements during the year as follows:—

	· · · · ·				
Nicosia	 80	Kyrenia			28
Larnaca	 121	Paphos		• •	6
Limassol	 89	Morphou	• •		2
	57	•			

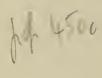
The Government Midwife was transferred from Paphos to Morphou as a local boycott prevented her getting sufficient cases to enable that town to be a training centre. Similarly Kyrenia ceased to be a training centre at the end of the year owing to insufficient cases.

In addition to these cases, pupils were trained at the Maternity wards in Nicosia General Hospital where 195 cases were delivered. The following table gives the details of these cases.

NICOSIA MATERNITY WARDS.

Cases—(1)	Normal	• •	• •	• •		135
	Complicated		• •			60
(3)	Total	• •	• •			195
Deaths of-						
(1)	Mother		• •			4
	Infants born alive	• •				$\overline{5}$
	Infants still born		• •			$2\overset{\circ}{2}$
Sex—						
	Male	• •	• •			120
	Female (7 sets twins)	• •				82
Operations-	,					
*	Cæsarian Section					5
	Version	• •		• •		7
	Application of Force	ps				12
	Retained Placenta ren		• •			3
Diseases an	nd Complication affecti	ng Moti	her:			· ·
	Albuminuria		• •			4
	Hæmorrhage:—					
	Post Partum					4
	Ante Partum					8
	Hydramnios			• •		1
	Puerperal Sepsis		• •			3
	Pernicious Anæmia			• •	• •	$\overset{\circ}{2}$
	Malaria		• •	• •		10
	Mitral disease	• •		• •		$\overset{ ext{-}}{2}$
Diseases ar	$id\ Complications\ affecti$	ing Infa	int			
	Asphyxia Blue	• •		• •		9
	Asphyxia White	• •		• •		5
	Maceration of fœtus		• •	• •	• •	i
	Malformation	• •	• •		• •	ī
			-			

Infant Welfare Centres.—See Social Worker's Report (Appendix E.)



VI. HOSPITALS AND DISPENSARIES.

General.—The attached table showing the amount of work done at various institutions for the past five years shows clearly an immense increase in general with the exception of Kyrenia Hospital. The number of day cases has increased during this period from 42,336 to 60,846 and the major operations from 721 to over 1,300. It is to be noted that the disturbances which took place in the month of October caused a considerable falling off in the numbers of out-patients and of applicants for admission to the Hospitals.

The training of probationer nurses mentioned in last year's Report has been continued.

Both Nicosia and Limassol Hospitals are proving too small for the numbers applying for admission, and suggestions are being submitted for increasing the accommodation at these institutions.

Dr. Miltiades Coureas and Dr. Stellios Papadopoulos have been appointed Consulting Physician and Consulting Surgeon respectively at Nicosia Hospital, and Dr. A. Gavrielides, Consulting Surgeon at Limassol.

The intention of these appointments was to give the local practitioners some interest in the hospitals and to increase the training facilities at these stations.

The general idea involved is to make both these Hospitals post graduate centres where the Government Medical Officers—many of whom have been years at out-stations—may be stationed for one or two years and learn practically up-to-date methods.

Mental Hospital.—See the Medical Superintendent's Report (Appendix F.)

Leper Farm and Hospital.—Our main aim is to make this institution as popular as such an institution can be by getting good results from treatment, by making the living conditions as much like those that the patients are accustomed to in their own homes as possible, and by avoiding any suggestion of imprisonment as far as reasonable.

The 1931 Statistics for the Leper Farm.

Remaining on 31st December Admitted during 1931	, 1930	• •	10	89
Re-admitted during 1931				
3				10
				99
Parolled in 1931			6	•
Died	• •	• •	4	
				10
Remaining on 31st December	, 1931	• •		89

Healthy Children of Lepers Home.—There were 7 children remaining in this institution on 31st December, 1931. The total cost to Government for the year was £223 which comes to under £32 a child.

Sanatorium.—We started out at the beginning of the year with the idea that this institution should be reserved for cases who would benefit by sanatorium treatment and care was taken in the selection for admission. By this means we hoped to provide an institution that would become popular instead of having its previous reputation as place where no patient came out alive.

It has not been possible, however, to carry out this idea completely as there was no place for persons in the last stages of the disease and a few of these have been admitted. Notwithstanding this, the reputation that this institution is developing is seen by the number of persons applying for admission.

The institution is well equipped and the treatment has been well organized. Credit is due to the Matron for bringing this hospital to such a high state of efficiency.

Statistics for 1931:—

Remaining on 31st December, 1930	 • •	• •	18
Admitted during the year	 • •	• •	58
Discharged in 1931	 • •	• •	36
Died in 1931	 • •		12
Remaining on 31st December, 1931	 • •		28

Tuberculosis Clinic.—A Tuberculosis Clinic was opened at Nicosia in the hospital grounds to provide a place where suspected cases could be examined and where cases living at home could be advised as to treatment and prevention of spread. It serves also as a place where cases can be selected for sanatorium treatment.

Statistics for 1931:—

New patients seen	• •	• •	131
Old patients seen (visits)			430
Patients found to have Tuberculosis	• •	• •	73
Patients found not to have Tuberculosis		• •	58
Patients sent to Sanatorium	• •	• •	37

Venereal Disease Clinics.—See Appendix B.

Dental Clinics.—Three dental clinics have been working since the 1st of October. In addition, the dentist at Larnaca has been paid by the municipality to work all the year at the Hospital. His Government time is used wholly in school dental work.

	Consultations	Abscess treated	Extractions	Amalgam	Fillings Cement	Porcelain	Scaling	Other diseases of the mouth
Nicosia	1,214	3	47	18	10	3	8	
Larnaca School	1,249		275		39	<u> </u>		32
Larnaca Hospital	459		338					209
Limassol	422	_						_

From the Nicosia report we get the following interesting figures:—

Institution	Number Exa- mined		For Ex- traction		For Scaling	Refusing Exami- nation	Tooth less
Sanatorium	. 38	7	11	26			
Mental Hospital, Males .	. 119	18	61	34		16	2
Mental Hospital, Females	54	11	31	11			
Central Prison	. 18	7	2	5	6		
Moslem School, Boys .	. 238	117	96	50			
Moslem School, Girls .	. 280	58	183	123			
Greek School, Boys	. 132	26	90	71			
Greek School, Girls	. 292	80	141	145			

The percentage under each heading for the Moslem and Greek Schools is as follows:—

					Moslem	Greek
Mouth in good condition	• •	• •	• •	• •	28%	19%
Teeth to be extracted	• •	• •		• •	45%	42%
Teeth to be filled	• •	• •	• •	• •	27%	39%

The percentage of children with bad teeth in Moslem schools is 72% and in Greek schools is 81%. The figure may at first sight appear enormous. But in the Report of the Chief Medical Officer of the Board of Education, England, for 1922, p. 81, we find the following statement:—

"In broad terms, the present position is this. Where no dental treatment is available 70–80% of the school children show definite decay...... Where action has been taken the figure falls to 40–50%.

STATEMENT OF THE AMOUNT OF WORK PERFORMED YEARLY AT THE SIX HOSPITALS FOR THE YEARS 1927–1931.

			1	1	ı		1	1	ł	1
Year	In-patients	Day-cases	% Deaths to No. of in-patients	Out-patients	Dressings	Prescriptions Dispensed	Major operations	Maternity cases	Midwives trained	Number of beds
Nicosia 1927 1928 1929 1930 1931	1,305 1,385 1,432 1,596 1,622	14,736 19,543 21,067 22,513 21,491	3.9 4.1 4.8 4.7 4.8	14,617 13,855	15,600	73,041 80,600	540 454 493 574 647		= = =	77+4 cots 78+4 cots
L'ssol. 1927 1928 1929 1930 1931	489 494 600 719 763	5,803 5,922 8,979 11,096 13,855	4.5 3.0 4.5 5.9 6.4	5,003 8,795 10,602	 19,234	38,267 47,385 42,401	53 95 164 223 312	— 11 30 34 63	=	
Larnaca 1927 1928 1929 1930 1931	784 661 754 873 796	5,438 7,355 9,125 9,125 9,466	2.3 1.6 3.0 3.0 4.6	3,355 6,000 8,822 10,440	- 6,877 11,332	14,387 26,957 31,017 26,521	51 61 85 122 106	15 63 69 44	=======================================	
F'gusta. 1927 1928 1929 1930 1931	505 625 528 656 627	7,518 7,246 7,555 7,665 7,449	3.3 3.5 3.4 3.2 3.3	4,575 4,832 5,217 6,297	2,923 3,502 3,318 9,262	 18,302 19,213	36 70 79 100 147	_ _ _ _ 9	= = = = = = = = = = = = = = = = = = = =	- - 32 37+2 cots
Paphos 1927 1928 1929 1930 1931	304 299 316 366 375	4,015 4,754 4,599 5,183 5,344	3.2 6.6 6.0 3.6 6.6	2,133 2,118 3,154 3,221		- 8,614 13,980	8 32 23 48 45		= = = = = = = = = = = = = = = = = = = =	
Kyrenia 1927 1928 1929 1930 1931	444 436 335 280 408	4,526 5,416 4,307 2,920 2,772	1.5 0.8 1.4 1.7 2.2		 3,704		33 7 6 8 33	_ _ _ _ 13		22 31+3 cots
Mental 1931	Hospit 253	al 61,210	3.9	-	_	_	_	_	_	181
Sanatori 1931	um 76	10,418	15.7	_	_		_		- 1	40
Leper Fa 1931	rm Ho 45	spital 1,105	8.8	_	_	_	_		_	14

VII. CONTROL OF PROFESSIONAL PRACTICE.

- (a) Medical Council.—The Medical Assessors, who function as a Medical Council, met on seven occasions during the year.
- (b) Medical Practitioners.—22 Medical Practitioners were registered during the year with qualifications from the following schools:—

Athens	• •	 14	London	∞− •		1
Russia		 1	Dublin	• •	• •	1
Constantinople	• •	 2	Berlin	• •	• •	1
Gratz	• •	 1	Lausanne	• •	• •	1

(c) Dental Practitioners.—Three dentists were registered from the following schools:—

Athens, 1; Ecole Dentaire Francaise, 3 and 1 dentist was licensed to practice.

- (d) Druggist and Pharmacists.—5 were registered, four local and one from Athens.
- (e) Control of Dangerous Drugs.—The chemists are getting a better knowledge of the laws and regulations and as a result their books are much better kept. The Inspectors have continued their inspections but no case was found for prosecution.

The number of permits issued for the local transfer of dangerous drugs between authorized persons is 159.

Table Showing the Amount of Dangerous Drugs for which Licences to import have been granted during the Year 1931.

		0	1:4	
Name of Drug		Quan	——————————————————————————————————————	
	No.	Ѣ.	oz.	grs.
Pure Drugs. Medicinal opium (in powder or granulated) Morphina (in the form of its preparations) Cocaina (in the form of its preparations)		<u>-</u>	1 5 13	334 237 143
Salts. Cocaine Hydrochlor		1 - -	$\begin{bmatrix} 9 \\ -1 \\ - \end{bmatrix}$	85 293 100 231
Ampoules Morphine Hydrochlor 0.01 ,, ,, ,, 0.02 ,, ,, with Atropine 0.01 ,, Pantopon 0.02 ,, Sedol 0.006 ,, Tropain Extractum Opii Siccum Tabloids Pantopon 0.01 ,, Hypodermic Colic Tinct. Opii Crocat. ,, Opii Nepenthe Sol. Ipecopan 25 bottles by 15 c.c. each bottle Tabloids Ipecopan	1,164 1,316 500 36 3,222 12 — 300 216 — — 400	- - - - - 8 2 - -	- - - - - - - 4 3 10 -	

VIII. METEOROLOGY.

METEOROLOGICAL RETURN FOR THE YEAR 1931.

Amount in Degree of Frevailing (0-10) Linches Humidity Direction (0-10) 2.85	Mean I 50.00 52.50 56.00 63.50 81.50 85.50 81.00		
79.16 82.27 71.33 63.08 57.43 57.43 57.43 N.W. 51.82 N.W. 61.16 N.W. 65.45 N.W. 69.58 N.W. 79.24 N.W.	\$6.00 \$6.00 \$3.50 \$7.50 \$5.00 \$1.50		33 38 32 42 42 49 60 66 38
79.16 E. 82.27 N.W. 71.33 S.E. 63.08 S.E. 57.43 N.W. 51.82 N.W. 61.16 N.W. 65.45 N.W. 65.45 N.W. 69.58 N.W. 79.24 N.W.	0.00 6.50 6.00 7.50 1.50 1.50		33 38 32 42 42 43 60 66 38
82.27 71.33 S.E. 63.08 S.E. 57.43 N.W. 51.82 N.W. 61.16 N.W. 65.45 N.W. 69.58 N.W. 79.24 N.W.	2.50 6.50 6.00 7.50 1.50 1.00		38 32 42 43 60 66 38
71.33 S.E. 63.08 S.E. 57.43 N.W. 51.82 N.W. 61.16 N.W. 65.45 N.W. 69.58 N.E. 79.24 N.W.	6.00 3.50 1.50 5.00 1.00		32 42 49 60 66 38
63.08 57.43 53.00 51.82 61.16 63.31 65.45 69.58 N.W. 69.58 N.W. 79.24 N.W.	3.50 1.50 5.50 1.00		42 49 60 66 38
53.00 N.W. 51.82 N.W. 61.16 N.W. 63.31 N.W. 65.45 N.W. 69.58 N.E. 79.24 N.W.	4.50 5.00 5.50 1.00		49 60 66 38
53.00 N.W. 51.82 N.W. 63.31 N.W. 65.45 N.W. 69.58 N.E. 79.24 N.W.	1.50 5.50 1.00		66 38
51.82 61.16 63.31 65.45 N.W. 69.58 N.E. 79.24 N.W.	5.00 1.00		99
61.16 63.31 N.W. 65.45 N.W. 69.58 N.E. 79.24 N.W.	5.50		10
63.31 N.W. 65.45 N.W. 69.58 N.E. 79.24 N.W.	1.00		14 60
65.45 N.W. 69.58 N.E. 79.24 N.W.			55 52
69.58 N.E. 79.24 N.W.	2.00		51 42
79.24 N.W.	7.00		36 42
	9.50		31 37
1.10 66.40 1.56 13.24	67.33	41.67 6 76	

IX. SCIENTIFIC.

The following paper was published:—
"A fatal case of quinine poisoning." S. G. Willimott, B.Sc., Ph. D.,
Government Analyst.

The Lancet, Nov. 21, 1931, p. 1133.

X. RECOMMENDATIONS.

- 1. Six small Isolation Hospitals for Consumptives.
- 2. New Sisters' quarters at Limassol and the conversion of their present quarters into extra ward accommodation.
- 3. New sanitary arrangements at Nicosia Hospital and the enlargement of bed accommodation by a slight alteration of the interior.
 - 4. A Health Unit.
- 5. The appointment of part time dentists for Paphos, Famagusta and Kyrenia and the appointment of a full time Travelling School Dentist for work in out villages.
- 6. The conversion of all insanitary latrines in Government Buildings to a sanitary type.
- 7. Increase in the number of warders at the Mental Hospital and providing them with quarters.
 - 8. Provision of two small wards for special cases at the Mental Hospital.
 - 9. A campaign to install sanitary latrines in villages.
 - 10. A Central Registry Office.

G. C. STRATHAIRN,

Director of Health, Cyprus.

APPENDIX A.

THE REPORT OF THE SURGICAL SPECIALIST FOR 1931.

By Dr. C. H. Cuff, Surgical Specialist, Cyprus.

The year 1931 has been an exceptionally heavy one, as regards surgical work. There has been an all round increase in operative and out-patient work, especially in Limassol, and the need for increased accommodation, both there and in Nicosia, is urgent. A new X-Ray apparatus has been installed in Nicosia, and the old machine set up in Limassol, where it supplies a long felt and urgent need.

RETURN OF SURGICAL OPERATIONS OF 1931.

RETURN OF S	URGICAL (JPERATIO1	NS OF 193	31.	
	Total Cases	Cured	Relieved	Unrelieved	Total
Abscess	. 130	113	13		4
Amputations	16	8	4		4
Glands (Excision of)	. 24	21	3		
Hernia	. 178	174		1	4
Hydrocele	1	14			
Hæmorrhoids		9			
Fistula		23	6	1	1
Tonsils		30			_
Mastoids		15	3		1
Thyroid operations	1	$\frac{2}{2}$			
Frontal Sinus		2	2		
$Eye \dots \dots \dots$		18			_
Hydatid Cyst		5	5		2
Benign Tumours	71	65	3	3	
Malignant Tumours—	12	7	10	7	
(a) Breast \dots \dots \dots \dots \dots	94	$egin{bmatrix} 1 \\ 3 \end{bmatrix}$	$\begin{array}{c} 10 \\ 17 \end{array}$	$egin{array}{c c} 1 & 3 \end{array}$	1
(a) Other Sites	69	13	42	$\begin{bmatrix} 3 \\ 6 \end{bmatrix}$	$\overset{1}{2}$
Open operations on Fractures	1	10	42		2
and Tointa	40	34	6		
Open operations on nerves	0	$\begin{bmatrix} 5 \\ 5 \end{bmatrix}$	1		
Osteomyelitis	11	$oxed{4}$	$\overline{7}$		_
Trephining	4	î	i		2
Plastic operations	23	$1\overline{6}$	$\overline{7}$		
Blood Transfusion	5	2	3		
Laparotomy	18	3	6	2	7
Appendicectomy	145	138	1	1	5
Gastro-Intestinal operations	7	2	2		3
Cholecystectomy	2	2			
Hysterectomy	16	16			
Hysteropexy	5	5			
Salpingo-oophorectomy	30	27	2		1
Cæsarian Section	7	7		_	
Cystotomy	18	14		2	2
Splenectomy	1	$\frac{1}{2}$		_	
Nephrectomy and Nephrotomy	$\frac{2}{2}$	2			
Transplantation of Ureter	2	7.0	$\frac{2}{2}$		
Male Genital Organs	16	12	3	-	$rac{1}{2}$
Thoracotomy	18	12	4.	8	2 8
Miscellaneous	207	$\begin{array}{c} 175 \\ 223 \end{array}$	16	0	0
Minor operations	223	223			
Total	1,463	1,217	169	27	50
	T				

LECTURES.

During the year, courses of lectures on Anatomy, Physiology and Nursing were given to the probationers at Nicosia Hospital. The result of the examination was satisfactory. These lectures are being continued together with a second year course on medical and surgical principles. In this connection, it may be remarked that great difficulty exists in obtaining suitable Cypriot girls as probationers. There appears to be an idea that the profession of a nurse is a very low one, and the result is that most of the applicants are girls

of little or no education, who take up the work for the sake of obtaining a living, and who rarely exhibit any interest in their work. The provision of suitable nurses' quarters, to include accommodation for both English and Cypriot staff, would, I believe, be of considerable value in attracting a better type of girl to the profession.

The question of extra accommodation is becoming increasingly urgent and will have to be faced in the near future. Both male and female beds are constantly occupied and serious cases are sent, almost daily, away. A tempo-

rary wooden pavilion would ease the situation for a while.

The work in the aided District Hospitals has somewhat increased and more serious cases are being dealt with, thus relieving the pressure on Nicosia. They still labour under great financial difficulties and are poorly and inefficiently staffed.

CANCER.

During the year, 142 cases of cancer have been admitted to hospital as against 92 during 1929, and 107 during 1930. It may be stated at once, that the majority of these people arrive for the first time with the disease well advanced and quite beyond cure. Palliative treatment with radium, however, continues to give in certain cases great relief, and occasionally produces astonishing results. (Vide next section). The figures for cancer of the cervix show a considerable increase, 31 as against 18 for last year. They were so advanced in degree that only 11 were suitable for radium therapy. of cancer of the corpus were seen. Cancer of the stomach showed an increase of It will be noted that malignant disease of the colon and rectum are The number of cases affecting the face (including lips) is as usual high, and is found practically exclusively in agricultural workers, who are daily exposed to the fierce sunlight, in a dry atmosphere, a condition favourable to the caustic action of the ultra-violet rays of the sun. All the cervical cases were multiparæ, and most of them showed signs of severe laceration. breast cancers arrive for a first consultation in a stage of advancement that one must see in order to believe.

Sarcoma shows an increase of 50%.

PROPAGANDA.

This resolves itself, here as elsewhere, into an intensive and simple education of the public on the subject of cancer, and of post-graduate instruction of medical men. To this end, a series of pamphlets are being prepared for circulation, one dealing with malignant disease of the breast and uterus, and another on cancer generally. These are couched in simple and non-alarming language and, it is hoped, will encourage sufferers to come early for examination.

Owing to shortage of staff and increase of work, lectures on the subject could not be given during the year, and the film obtained was found to be unsuitable.

A new cancer table has been prepared, which shows at a glance, number, sex, age, race, situation and type of growth.

Note.—Cancer has now been made notifiable, and lectures have commenced.

RADIUM TREATMENT OF CANCER.

The treatment of malignant disease by radium commenced in 1930, was continued on the same lines during 1931, with, on the whole, very satisfactory results. Much of the treatment given was of necessity palliative, but was none the less of great value. A glance at the comparative table shows an improvement in results, due partly to an increase in early cases of cancer of the face and uterus treated, and improved technique.

$\begin{array}{cccc} Comparative & Table. — Table & I. \\ No. & A.C. & I. \end{array}$

RADIUM.

Site	1	No.	A.C.	I.	N.I.	D.
Uterus	 	11	6	5		
Face	 	20	15	5		
Other Sites	 	19	10	7		2
Total	 	50	31	19		2

Sarcoma Table.—Table II.

Site	Rad.	Sex	Duration	n Mg. H.	Result	
						
Neck	76	\mathbf{M}	10.5	10,296	G.D.	2 applications
Cheek	26	\mathbf{M}	17.	4,872	G.D.	1. 1.
Neck	90	\mathbf{M}	12.	13,230	G.D.	2 applications
Buttock	70	${f M}$	11.	$9,\!432$	G.D.	2 applications
Neck	40	\mathbf{M}	6.	5,760	M.I.	
Abdominal Wall	15	\mathbf{F}	6.	2,160	G.D.	
Scalp	20	\mathbf{M}	5	2,400	M.I.	

Note.—G.D. Growth disappeared.

D. Died

M.I. Much improved.

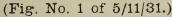
U.K. Unknown.

I. Improved.

A.C. Apparently cured.

Seven cases of sarcoma were treated by radiation. Five of these were far advanced and quite beyond the scope of surgery, and the sixth (abdominal fibro-sarcoma) had recurred 3 times after operation. The immediate effect of treatment has resulted in the disappearance of the primary growth in 5 cases. In one instance (neck) the growth had involved the left tonsil and soft palate, and produced dyspnæa and dysphagia, only water being swallowed. He is now, for the time being, apparently quite well and at work. It is too much to hope that all these cases will be permanent cures, metastases being almost inevitable, but they justify the method of treatment and give encouragement. The photographs give some idea of the results obtained.







(Fig. No. 2 of 12/2/31.)

Round celled Sarcoma of Cheek.

Age 10.

Duration, on admission, 3 months.

Growth involved Mucosa.

Interstitial application of Radium.

1st treatment: 11 mg. R.E., 7 days, 3,192 milligramme hours. 2nd treatment: 7 mg. R.E., 10 days, 1,680 milligramme hours.

Interval, 1 month.





(Fig. No. 1 of 13/8/31.)

(Fig. No. 2 of 2/10/31.)

Lympho Sarcoma of Neck.

Involved left tonsil and soft palate, causing dispnœa and disphagia. Age 65.

Duration, 4 months.

Wax cast (1 c.m.) to neck.

1st treatment: 50 mg. R.E., $6\frac{1}{2}$ deep, 7,800 milligramme hours. 2nd treatment: 26 mg. R.E., 4 deep, 2,496 milligramme hours. Interval, 2 months.

TECHNIQUE.

In cases of Group I the interstitial method has been largely adhered to, except in the flat or deeply ulcerated type of growth when Columbia paste is preferred. Growths about the eyelids occasionally give rise to a severe iritis and conjuctivitis, in the course of treatment, which can be partly avoided by the use of lead shields. In Group II cervical carcinomata, the Paris method of intra-cavitary application has been continued and appears to be quite satisfactory. Extra rubber screening and gauze packs in the vagina help to avoid complications, such as tenesmus and stricture. The breast cases have been treated partly interstitially and partly by wax castes. The lymphosarcomata and a case of very extensive lymphadenoma, have been treated with wax castes. The 2 round celled sarcomata (buttock and cheek) were treated by the interstitial method. The tonsil case was treated by a combination of needling and paste.

RECORDING.

The system of recording adopted is based on that of the Hotel Dieu, Paris, and consists of a series of six coloured cards dealing with different aspects of each case, the whole enclosed in an envelope. These cards deal with history,

treatment, operative intervention, histology, "follow up," etc.

Uterine cases are, in addition, recorded on the special forms recommended by the Radiological Sub-Committee of the League of Nations, whose classification has been adopted. An efficient "follow up" is far from easy, but, with the aid of the Mukhtar, much has been done, and the patients themselves are often keen to keep in touch with the Hospital. Wherever possible photographs are obtained. Dr. Gosden, the Government Bacteriologist, has kindly undertaken the histological examination and is also hoping to prepare sections demonstrating the action of radiation on the tissues from day to day.

REPORT ON SECTIONS FROM CARCINOMA OF THE CERVIX UTERI, AT INTERVALS
AFTER THE APPLICATION OF RADIUM.

Patient age 35 of Lapithos.

Section I, (before the application of radium) 24.2.32.—Squamous celled, non-keratising carcinoma of Cervix Uteri. There is considerable infiltration with inflammatory cells, notably eosinophiles. The infiltration is mainly in degenerated areas in the masses of cancer cells, and between the masses of cancer cells are strands of fibrous tissue. Some areas of cancer cells show degeneration in the centre, while in most areas the cells occur as solid blocks (Fig. I and II.)

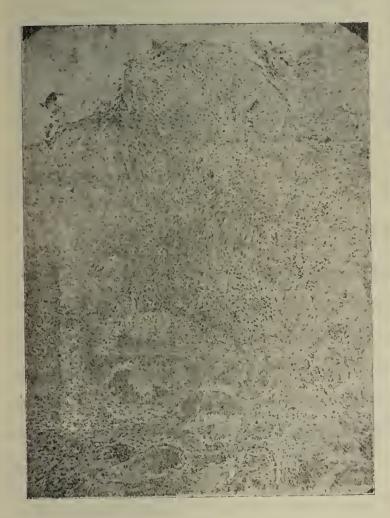




Fig. I.—Section of growth before the application of radium.

Fig. II.—Details of the Carcinoma cells in Fig. I.

Section II (48 hours after the application of radium) 26.2.32.—There is no marked difference in the histological appearance of this section compared with the preceding one. The infiltration with eosinophiles is marked.

Section III (96 hours after the application of radium) 28.2.32.—This section shows small groups, and in places single cancer cells, surrounded and isolated by tissue composed partly of inflammatory cells, leucocytes, lymphocytes and plasma cells, and partly of structureless hyaline material staining deeply with eosin. This hyaline material is most abundant round the blood vessels.

Section III.—The inflammatory reaction is general and the infiltration with eosinophiles has disappeared.

Section IV (144 hours after the application of radium) 1.3.32.—This section shows an increase in the changes seen in Section III. The hyaline material is much more abundant and the inflammatory reaction less marked.

The cancer cells are very few, and single degenerated cells are sparsely scattered and surrounded with the hyaline tissue. (Fig III and IV.)

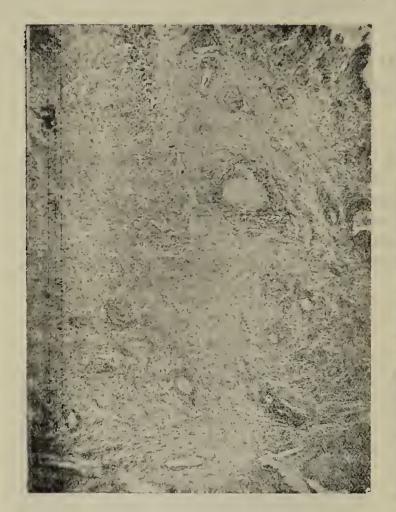




Fig. III.—Growth 6 days after the application.

Fig. IV.—Details of tissue in Fig. III.

SUMMARY.

The results which have been obtained up-to-date, are, as far as they go, quite satisfactory and certainly encouraging. Most of the cases treated were in an advanced stage, and in the absence of radium would have died miserably. A new and comfortable lease of life is given these people, though, for how long, it is not possible to say. Table (VII) showing the results of 1930 up-to-date is by no means discouraging despite 8 deaths, and the relief given, quite apart from cure, is often very remarkable.

All carcinomata of the cervix and cutaneous cancers are, for the present, being treated with radium.

Second applications, it has been observed, are not as a rule so efficacious as the first, and it is hoped next year to try out the combination of ultra-violet exposures in certain cases. Squamous epitheliomata appear much more radio-resistant than rodent ulcer, or sarcomata.

Owing to the small quantity of radium available (100 milligrammes) much time is lost and patients are kept waiting for treatment. Another 50 milligrammes would be of inestimable service. In fine, as stated last year, radium cannot yet be regarded as a cure for cancer, but it is a powerful and indispensable weapon in the surgeon's armamentarium, as indispensable as the knife; as a palliative it is unsurpassed. Further experience and improved technique will undoubtedly produce better results.

RADIUM TABLES.—GROUP I.—TABLE III.

Days Hours Hours	DITO	Radium	Sex	Duration	Mg.	Result	
Eyelid			BUX		$_{ m Hours}^{ m mg.}$	Nesum	
Nose	Evelid		M.			G.D.	
Nose				1			
Nose			1				Paste
Lip L				1		Acres de	
Hand					•		v. Havanoca.
Nose	<u> </u>	1	2	1		T.	Not traced
Cheek				1	•	G D	1100 bracca
Check					•		
Lip L. 2.5 M. 6 442 G.D. Inner Canthus 2. M. 6 288 G.D. Patient removed needles 3rd day.							
Nose							
Lip L. 3. M. 3 216 C.D. Patient removed needles 3rd day.							
Nose							Dationt nomerad
Nose	ыр ы	Э.	TVI.	3	210	G.D.	
Canthus	Nose	75	יתר	G	1.090	MI	
Forehead				1	•		· ·
Radium Tables Grown Gr			1	i l			
Nose			1	1	•	ł	Extensive.
Check (2 applications)			i			t	TTT
Radium Tables				1			
Radium Tables Group H. Table IV.	,				•	1	Sarcomaextensive.
Site	Canthus	3.	M.	12	864	I.	
Site	Rad	IUM TA	BLES	s.—Gro	UP II.—	TABLE I	V.
Mg. Days Hours Cervix (2 applications) G2 9 6,080 G.D. Stage II.							1
Cervix (2 applications) G2	Dioc					Lucsulu	
Cervix .	Corvix (2 applications					GD	Stage T
				1			
## (2 applications)	Cervix	• •					
Color	,, (2 application	~/ • •					
Stage I. Stage I. Stage I. Stage I. Stage II. Stage II	" (2 applications	5) ••					
Stage II. Stage III. Stage II.					•		
30 6 4,320 G.D. Stage I.							
Harding Properties Harding							
RADIUM TABLES.					•		
RADIUM TABLES.—GROUP III.—TABLE V. Site Sex Radium Duration Mg. Hours Result Remarks W. Advanced.					•		
Radium Tables.—Group III.—Table V. Site Sex Radium Duration Mg. Hours Result Remarks W. Advanced.		1			,		
Site Sex Radium Duration Duration 16,080 M.I. Result Remarks V. Advanced. Breast		1	30	6	4,320	<u>l.</u>	Stage I(recent)
Breast F. 82 15 16,080 M.I. V. Advanced. Buttock (2 applications) M. 70 11 9,432 G.D. Sarcoma. Neck M. 40 6 5,760 M.I. Lympho-Sarcoma Breast F. 52 7 8,736 G.D. Paste. Thyroid (2 applications) M. 75 9 8,400 D. 6 months later of pneumonia. Vagina F. 20 7 3,360 G.D. G.D. Axilla F. 25 4 2,400 G.D. Subsequent to breast operation. Applications F. 15 6 2,160 G.D. G.D. With excision of ulcer. Breast F. 85 14 13,080 G.D. M. With excision of ulcer. Breast F. 60 7 10,080 I. Not traced. Fibro-Sarcoma. paste. Scalp M. 38	RADI	UM TA	BLES.	—Grou	JP III.—	TABLE V	•
Buttock (2 applications) M. 70 11 9,432 G.D. Sarcoma. Neck M. 40 6 5,760 M.I. Lympho-Sarcoma Breast F. 52 7 8,736 G.D. Paste. Thyroid (2 applications) M. 75 9 8,400 D. 6 months later of pneumonia. Vagina F. 20 7 3,360 G.D. Axilla F. 25 4 2,400 G.D. Subsequent to breast operation. Larynx M. 23 7 5,544 D. After 1 month. Abdominal Scar F. 15 6 2,160 G.D. With excision of ulcer. Breast F. 85 14 13,080 G.D. M.I. Not traced. Scalp M. 20 5 2,400 M.I. Fibro-Sarcoma. <td< td=""><td>Site</td><td>Sex Ra</td><td>dium</td><td>Duration</td><td>Mg. Hours</td><td>Result</td><td>Remarks</td></td<>	Site	Sex Ra	dium	Duration	Mg. Hours	Result	Remarks
Buttock (2 applications) M. 70 11 9,432 G.D. Sarcoma. Neck M. 40 6 5,760 M.I. Lympho-Sarcoma Breast F. 52 7 8,736 G.D. Paste. Thyroid (2 applications) M. 75 9 8,400 D. 6 months later of pneumonia. Vagina F. 20 7 3,360 G.D. Axilla F. 25 4 2,400 G.D. Subsequent to breast operation. Larynx M. 23 7 5,544 D. After 1 month. Abdominal Scar F. 15 6 2,160 G.D. With excision of ulcer. Breast F. 85 14 13,080 G.D. M. Not traced. Scalp M. 20 5 2,400 M.I. Fibro-Sarcoma. N	Breast	F.	82	15	16,080	M.I.	V. Advanced.
(2 applications) M. 70 11 9,432 G.D. Sarcoma. Neck M. 40 6 5,760 M.I. Lympho-Sarcoma Breast F. 52 7 8,736 G.D. Lympho-Sarcoma Paste. Thyroid 2 7 3,360 G.D. G.D. Vagina F. 20 7 3,360 G.D. Axilla F. 25 4 2,400 G.D. Subsequent to breast operation. Larynx M. 23 7 5,544 D. After 1 month. Abdominal Scar F. 15 6 2,160 G.D. With excision of ulcer. Breast M. 15 7 2,520 G.D. With excision of ulcer. Breast F. 85 14 13,080 G.D. B.D. Breast F. 60 7 10,080 I. Fibro-Sarcoma Scalp M.	_						
Neck M. 40 6 5,760 M.I. Lympho-Sarcoma Paste. Thyroid (2 applications) M. 75 9 8,400 D. 6 months later of pneumonia. Vagina F. 20 7 3,360 G.D. Subsequent to breast operation. Axilla F. 25 4 2,400 G.D. After 1 month. Abdominal Scar F. 15 6 2,160 G.D. Paste. Rectum M. 15 7 2,520 G.D. With excision of ulcer. Breast (2 applications) F. 85 14 13,080 G.D. Not traced. Scalp M. 20 5 2,400 M.I. Fibro-Sarcoma. Neck M. 38 7 4,764 I. Not traced. Neck (2 applications) F. 62 14 20,832 G.D. Sarcoma paste. Tonsil (2 applications) F. 62 14 20,832 G		M.	70	11	9,432	G.D.	Sarcoma.
Breast	_ ` _ * *				•	100 T.A.	Lympho-Sarcoma
Thyroid (2 applications) M. 75 9 8,400 D. 6 months later of pneumonia. Vagina F. 20 7 3,360 G.D. Axilla F. 25 4 2,400 G.D. Subsequent to breast operation. Larynx M. 23 7 5,544 D. After 1 month. Abdominal Scar . F. 15 6 2,160 G.D. Paste. Rectum M. 15 7 2,520 G.D. With excision of ulcer. Breast (2 applications) . F. 85 14 13,080 G.D. Breast F. 60 7 10,080 I. Scalp M. 20 5 2,400 M.I. Neck M. 38 7 4,764 I. Neck (2 applications) Tonsil (2 appl					•		1
(2 applications) M. 75 9 8,400 D. 6 months later of pneumonia. Vagina F. 20 7 3,360 G.D. G.D. Subsequent to breast operation. Axilla M. 23 7 5,544 D. After 1 month. After 1 month. Paste. Abdominal Scar F. 15 6 2,160 G.D. With excision of ulcer. Breast M. 15 7 2,520 G.D. With excision of ulcer. Breast M. 20 5 2,400 M.I. Not traced. Scalp M. 20 5 2,400 M.I. Not traced. Neck M. 38 7 4,764 I. Neck (2 applications) M. 76 10.5 10,296 G.D. Tonsil (2 applications) F. 62 14 20,832 G.D. Extensive paste. Neck and Axilla M. 90 12 13,230 G.D. Extensive paste.	_		<u> </u>		0,100	0,.10.	
Vagina F. 20 7 3,360 G.D. G.D. Subsequent to breast operation. Larynx M. 23 7 5,544 D. After 1 month. After 1 month. Abdominal Scar F. 15 6 2,160 G.D. Paste. Rectum M. 15 7 2,520 G.D. With excision of ulcer. Breast F. 60 7 10,080 I. Not traced. Scalp M. 20 5 2,400 M.I. Fibro-Sarcoma, paste. Neck M. 38 7 4,764 I. Sarcoma paste. Tonsil(2 applications) F. 62 14 20,832 G.D. Interstitial and Paste. Neck and Axilla (2 applications) M. 90 12 13,230 G.D. Extensive paste.		М	75	9	8 400	D	6 months later
Vagina F. 20 7 3,360 G.D. G.D. Subsequent to breast operation. Axilla M. 23 7 5,544 D. After 1 month. After 1 month. Paste. Rectum M. 15 7 2,520 G.D. With excision of ulcer. Breast F. 85 14 13,080 G.D. With excision of ulcer. Scalp F. 60 7 10,080 I. Not traced. Fibro-Sarcoma. paste. Neck M. 38 7 4,764 I. Sarcoma paste. Neck (2 applications) M. 76 10.5 10,296 G.D. Sarcoma paste. Interstitial and Paste. Neck and Axilla 2 2 12 13,230 G.D. Extensive paste.	(4 (1) 1 (1) (4) (1) (1) (1)	-T			(),4()()	<i>.</i>	10 monums laber
Axilla	(= opposition)				0,400	ъ.	
Larynx			20				
Larynx	Vagina	F.		7	3,360	G.D.	of pneumonia.
Abdominal Scar F. 15 6 2,160 G.D. Paste. Rectum M. 15 7 2,520 G.D. With excision of ulcer. Breast (2 applications) F. 85 14 13,080 G.D. Not traced. Breast F. 60 7 10,080 I. Not traced. Fibro-Sarcoma. Scalp M. 20 5 2,400 M.I. Fibro-Sarcoma. Neck M. M. 76 10.5 10,296 G.D. Sarcoma paste. Tonsil (2 applications) F. 62 14 20,832 G.D. Interstitial and Paste. Neck and Axilla Neck and Axilla 90 12 13,230 G.D. Extensive paste. Interstitial and Paste. 10	Vagina	F.		7	3,360	G.D.	of pneumonia. Subsequent to
Rectum	Vagina Axilla	F. F.	25	7 4	3,360 2,400	G.D. G.D.	of pneumonia. Subsequent to breast operation.
Breast (2 applications) F. 85 14 13,080 G.D. Breast F. 60 7 10,080 I. Not traced. Scalp M. 20 5 2,400 M.I. Fibro-Sarcoma. Neck M. 38 7 4,764 I. Neck (2 applications) M. 76 10.5 10,296 G.D. Sarcoma paste. Tonsil (2 applications) F. 62 14 20,832 G.D. Interstitial and Paste. Neck and Axilla (2 applications) M. 90 12 13,230 G.D. Extensive paste.	Vagina Axilla	F. F.	2523	7 4 7	3,360 2,400 5,544	G.D. G.D. D.	of pneumonia. Subsequent to breast operation. After 1 month.
Breast (2 applications) F. 85 14 13,080 G.D. Breast	Vagina	F. F. M. F.	25 23 15	7 4 7 6	3,360 2,400 5,544 2,160	G.D. G.D. D. G.D.	of pneumonia. Subsequent to breast operation. After 1 month. Paste.
(2 applications) F. 85 14 13,080 G.D. Breast F. 60 7 10,080 I. Not traced. Scalp M. 20 5 2,400 M.I. Not traced. Neck M. 38 7 4,764 I. Neck (2 applications) M. 76 10.5 10,296 G.D. Sarcoma paste. Tonsil (2 applications) F. 62 14 20,832 G.D. Interstitial and Paste. Neck and Axilla (2 applications) M. 90 12 13,230 G.D. Extensive paste.	Vagina	F. F. M. F.	25 23 15	7 4 7 6	3,360 2,400 5,544 2,160	G.D. G.D. D. G.D.	of pneumonia. Subsequent to breast operation. After 1 month. Paste. With excision of
Breast	Vagina	F. F. M. F.	25 23 15	7 4 7 6	3,360 2,400 5,544 2,160	G.D. G.D. D. G.D.	of pneumonia. Subsequent to breast operation. After 1 month. Paste. With excision of
Scalp M. 20 5 2,400 M.I. Fibro-Sarcoma. Neck M. 38 7 4,764 I. Neck (2 applications) M. 76 10.5 10,296 G.D. Sarcoma paste. Tonsil (2 applications) F. 62 14 20,832 G.D. Neck and Axilla (2 applications) . M. 90 12 13,230 G.D. Extensive paste.	Vagina	F. F. M. F. M.	25 23 15 15	7 4 7 6 7	3,360 2,400 5,544 2,160 2,520	G.D. G.D. D. G.D. G.D.	of pneumonia. Subsequent to breast operation. After 1 month. Paste. With excision of
Neck (2 applications) M. 76 10.5 10,296 G.D. Sarcoma paste. Tonsil (2 applications) F. 62 14 20,832 G.D. Interstitial and Paste. Neck and Axilla (2 applications) M. 90 12 13,230 G.D. Extensive paste.	Vagina	F. M. F. M. F.	25 23 15 15 85	7 4 7 6 7	3,360 2,400 5,544 2,160 2,520	G.D. G.D. G.D. G.D.	of pneumonia. Subsequent to breast operation. After 1 month. Paste. With excision of ulcer.
NeckM.3874,764I.Neck (2 applications)M.7610.510,296G.D.Sarcoma paste.Tonsil (2 applications)F.621420,832G.D.Interstitial and Paste.Neck and Axilla (2 applications)M.901213,230G.D.Extensive paste.	Vagina	F. M. F. M.	25 23 15 15 15	7 4 7 6 7	3,360 2,400 5,544 2,160 2,520 13,080 10,080	G.D. G.D. G.D. G.D. I.	of pneumonia. Subsequent to breast operation. After 1 month. Paste. With excision of ulcer.
Neck (2 applications) M. Tonsil (2 applications) F. G.D. Sarcoma paste. Neck and Axilla (2 applications) M. 90 12 13,230 G.D. Extensive paste.	Vagina	F. M. F. M.	25 23 15 15 15	7 4 7 6 7	3,360 2,400 5,544 2,160 2,520 13,080 10,080	G.D. G.D. G.D. G.D. I.	of pneumonia. Subsequent to breast operation. After 1 month. Paste. With excision of ulcer. Not traced. Fibro-Sarcoma.
Tonsil (2 applications) F. 62 14 20,832 G.D. Interstitial and Paste. Neck and Axilla (2 applications) M. 90 12 13,230 G.D. Extensive paste.	Vagina	F. M. F. M. F. M.	25 23 15 15 15 85 60 20	7 4 7 6 7 14 7 5	3,360 2,400 5,544 2,160 2,520 13,080 10,080 2,400	G.D. G.D. G.D. G.D. I. M.I.	of pneumonia. Subsequent to breast operation. After 1 month. Paste. With excision of ulcer. Not traced. Fibro-Sarcoma.
Neck and Axilla (2 applications) M. 90 12 13,230 G.D. Extensive paste.	Vagina	F. M. F. M. M. M. M.	25 23 15 15 15 85 60 20	7 4 7 6 7 14 7 5	3,360 2,400 5,544 2,160 2,520 13,080 10,080 2,400 4,764	G.D. G.D. G.D. G.D. I. M.I.	of pneumonia. Subsequent to breast operation. After 1 month. Paste. With excision of ulcer. Not traced. Fibro-Sarcoma. paste.
Neck and Axilla (2 applications) M. 90 12 13,230 G.D. Extensive paste.	Vagina	F. M. F. M. M. M. M. M.	25 23 15 15 15 85 60 20 38 76	7 4 7 6 7 14 7 5	3,360 2,400 5,544 2,160 2,520 13,080 10,080 2,400 4,764 10,296	G.D. G.D. G.D. G.D. I. M.I. I. G.D.	of pneumonia. Subsequent to breast operation. After 1 month. Paste. With excision of ulcer. Not traced. Fibro-Sarcoma. paste. Sarcoma paste.
(2 applications) M. 90 12 13,230 G.D. Extensive paste.	Vagina	F. M. F. M. M. M. M. M.	25 23 15 15 15 85 60 20 38 76	7 4 7 6 7 14 7 5	3,360 2,400 5,544 2,160 2,520 13,080 10,080 2,400 4,764 10,296	G.D. G.D. G.D. G.D. I. M.I. I. G.D.	of pneumonia. Subsequent to breast operation. After 1 month. Paste. With excision of ulcer. Not traced. Fibro-Sarcoma. paste. Sarcoma paste. Interstitial and
(2 approximate)	Vagina Axilla Larynx Abdominal Scar Rectum Breast (2 applications) Breast Scalp Neck Neck (2 applications) Tonsil (2 applications)	F. M. F. M. M. M. M. M.	25 23 15 15 15 85 60 20 38 76	7 4 7 6 7 14 7 5	3,360 2,400 5,544 2,160 2,520 13,080 10,080 2,400 4,764 10,296	G.D. G.D. G.D. G.D. I. M.I. I. G.D.	of pneumonia. Subsequent to breast operation. After 1 month. Paste. With excision of ulcer. Not traced. Fibro-Sarcoma. paste. Sarcoma paste. Interstitial and
Toe F. 5 10 1,200 1.	Vagina Axilla Larynx Abdominal Scar Rectum Breast (2 applications) Breast Scalp Neck Neck (2 applications) Tonsil (2 applications) Neck and Axilla	F. M. F. M. M. M. M. F.	25 23 15 15 15 85 60 20 38 76 62	7 4 7 6 7 14 7 5 7 10.5 14	3,360 2,400 5,544 2,160 2,520 13,080 10,080 2,400 4,764 10,296 20,832	G.D. G.D. G.D. G.D. I. M.I. I. G.D. G.D.	of pneumonia. Subsequent to breast operation. After 1 month. Paste. With excision of ulcer. Not traced. Fibro-Sarcoma. paste. Sarcoma paste. Interstitial and Paste.
	Vagina Axilla Larynx Abdominal Scar Rectum Breast (2 applications) Breast Scalp Neck Neck (2 applications) Tonsil (2 applications) Neck and Axilla (2 applications) Neck and Axilla	F. H. M. F. M. M. M. M. F. M. M. M. F.	25 23 15 15 15 85 60 20 38 76 62	7 4 7 6 7 14 7 5 7 10.5 14	3,360 2,400 5,544 2,160 2,520 13,080 10,080 2,400 4,764 10,296 20,832	G.D. G.D. G.D. G.D. G.D. G.D. G.D. G.D.	of pneumonia. Subsequent to breast operation. After 1 month. Paste. With excision of ulcer. Not traced. Fibro-Sarcoma. paste. Sarcoma paste. Interstitial and Paste.

TABLE VI.

	Other Sites	100	6	51.71 42.50 1	-	2 6	භ <i>ග</i>	es	
	Tonsils		-	31	-		-	1	
	Tongue		2	48					
	Thyroid Tongue		1	54		-	7	1	
The second second	Prostate Bladder	1	က	55.0 20 1	-		61	1	
STATE OF THE PERSON NAMED IN	Prostate							1	
STREET, SECTION SECTION.	Penis	က	3	47.73		භ 	ි 		
A CONTRACTOR OF THE PARTY OF TH	Ovary	67	2	50.0	"	"		-	
	Uterus	31	31	43.38	4	27	31		
	Breast	12	13	64 48.58 —	ස 	6	12		
	Liver	41-	11	45.50 45.57 1		m 9	es 9	2 -	
	Intestines	0101	4	37.50 44.50	-	. 12	2	1	
Simple and the supplemental sup	Stomach	∞ က	11	50.50		∞ m	တ က		
	Larynx	- 2	2	56.0	-	-	-	-	11
	Race	27	49	51.18 54.59 8	တ က	10	111	ထ က	9
	Total Cases	58 84	142	51.03 47.44 14	14	44 70	34	15 6	9
		Males Females	Grand Total	Average Age. Males Females Males	Moslems Males Females Non-	Moslems Males Females TYPE:—	Males Females	Males Females	ULCER— Males Females

TABLE VII. RADIUM TABLES.—GROUP I.—1930.

	1	1 1111111			1000.	
Site		Duration		Result	Remarks	Condition
	(mg.)	(days)	(hours)			Dec., 1931
			4.200	~ D		T.
Cheek	25	7	4,200	G.D.		D.
Cheek and Lip	5	7	840	M.I.	V. Extensive	A.C.
Orbit	30	10	7,200	G.D.	Melanoma	D.
Eyelid	5	11	1,320	G.D.	Paste	A.C.
Nose	5	7	840	G.D.	Paste	A.C.
Nose	5	10	1,200	G.D.	V. Advanced	A.C.
T:m	5	10	1,200	G.D.		A.C.
	20	13	6,240	G.D.	V. Advanced.	
		9	1 -	1	v. Auvanceu.	A.C.
Cheek	19		4,104	G.D.		
Nose and Cheek	6	6	864	G.D.		A.C.
Nose and Cheek	9.5	7	1,596	G.D.		A.C.
Forehead	6	6	864	G.D.		A.C.
Nose	6.5	8	1,440	G.D.		A.C.
Cheek	3.0	6	432	M.I.	Paste.	A.C.
Penis	3.5	7	908	M.I		A.C.
Scalp	14.5	7	2,436	G.D.		A.C.
bearp	15	7	2,520	M.I.	Extensive	A.C.
Cheek and Lip {	20	4	1,920	TIT.T.	2 treatments	A.C.
TAT.		7	1	a D		A.C.
Nose	5	1	940	G.D.	Paste.	
Cheek	12.5	8	2,300	G.D.		A.C.
Lip	3.0	10	720	G.D.		D. Erisipelas.
Forehead and Cheek	28.0	6	4,032	M.I.		
Penis	15	10	3,600	M.I.	V. Extensive	Amputation
Penis	3.5	7	588	M.I.		G.D.
Nose	4	18	1,728	M.I.	Paste	A.C.
Nose	3.5	10	840	M.I.		A.C.
- 11 7 OT T	25.0	10	6,000	M.I.		A.C.
	1	10	360	M.I.		A.C.
Eyelid	1.5		1	G.D.		A.C.
Shoulder	14	5	1,680	(G.D.	1	A.U.
	G	ROUP]	II.			
Cervix	32	7	5,376	D.	Stage IV.	
	25	7	4,200	M.I.	Stage III.	A.C.
"	80	6	11,520	G.D.	Stage I.	A.C.
,,	30	8	5,460	U.K.	Stage I.	A.C.
,,		5	1	M.I.		A.C.
,,	30		3,600		Stage II.	D. Metasta-
,,	75	7	12,600	I.	Stage III.	1
			0.000	Q D	CI II	sis 8 months
, ,,	70	9	6,300	G.D.	Stage II.	To a
,,	50	6	7,200	M.I.	Stage IV.	D. 1 year.
	90	5	11,800	M.I.	Stage III.	D. 9 months.
,,	75	5	9,000	G.D.	Stage I.	A.C.
99	1	ROUP I				
				T	1 76/5-3	D CD !
Breast	26	10	6,240	I.	Male	D. G.D. cardi-
					1	ac 10 months.
Breast	50	8	9,600	D.	Recurrent	
					Paste	
Breast · · ·	34	12	9,792	I.		D. 6 months.
	10	ii	2,600	M.I.	Sarcoma	A.C.
Orbit	35	7	5,880	D.	Sarcoma	22,0,
Neck ·· ··	30		0,000	10.	V. Advanced	
	90	7	1.704	Т	v. Muvanceu	A.C.
Breast · · ·	28	7	4,704	I.	Thomas III	
Pelvis · · ·	50	6	7,200	I.	From Uterus	
Breast	85	5	10,200			U.K.
Maxilla	40	6	5,760	I.		I.
Axilla	27	8	4,914	G.D.	From Breast	A.C.
Breast	21	9	4,536	G.D.	Male.	A.C.
DICORU				D D.		

Note.—G.D. Growth disappeared.
M.I. Much improved.
I. Improved.

D. Died. U.K. Unknown.

A.C. Apparently cured.

TABLE VIII.

R.E.			Radiu	m $Dosag$	ge Table	(Appro	x.		
	1	1.5	2	2.5	3	4	5	6	Days
m.g.	_				_	_	_	_	
5	12	18.	24	30	36	48	60	7 2	128
1	24	36	48	60	72	96	120	144	no
2	48	72	96	120	144	192	240	288	He.
3	72	108	144	180	216	288	360	432) a
4	96	144	192	240	288	384	480	576	ran
5	120	180	240	300	360	480	600	720	lig
6	144	216	288	360	432	576	720	864	MilligrammeHours

APPENDIX B.

REPORT ON THE VENEREAL DISEASE CLINICS.

By Dr. N. CH. MICHAELIDES.

The five clinics mentioned in last year's Report have been working during the whole year, and the staff employed was six Medical Officers, 28 nurses (17 male and 11 female) and a lady secretary. Dr. R. E. Hopton, who had organized and been in charge of the campaign since it started, severed his connection with the Colony at the end of the year to our great regret.

Since its start four years ago, 14,744 patients have attended these clinics, made up of 9,991 males and 4,753 females. During this period the total number of treatments given for gonorrhœa was 495,915 and the number of injections for syphilis was 50,846. The total cost of the campaign down to 31st December, 1931, was £21,059.

WORK DONE DURING THE YEAR, 1931.

The work done this year has been carried out on the lines laid down by Dr. Hopton for the previous year. Propaganda in the form of leaflets and lectures has been continued.

THE PROPHYLACTIC CENTRE AT LARNACA.

The Prophylactic Centre at Larnaca was started in 1930, continued its activities during 1931, and 6,044 attendances are recorded as compared with 4,811 of the previous year.

NUMBER OF CASES, ETC.

We have now five treatment centres, one for each of five districts of the Island.

The actual number of treatments given to new and old cases in all clinics as daily attendances amounts to 221,732.

N	Vicosia .	Larnaca	Limassol	Famagusta	Paphos	Prisons
Total daily attend-				_	_	<u> </u>
ances for 1931	81,315	37,320	37,043	41,340	23,287	1,217

The new cases seen in all clinics during the year, 1931, amount to 3,568. This is made up of 2,374 males and 1,194 females distributed as shown in the following table:—

NEW CASES.

	1	Vicosia	;	Larnac	a I	Limassol	F	amagusto	ι.	Paphos	Prisons
				—							
Males											
Females	 • •	431		255		146	• •	201 .	•	161	
Total	 • • •	1,249	• •	631		512		662 .	•	463	 51
											===

Males.

cases of Syphilis, and of these 196 were suffering from both Gonorrhea and 240 cases of Syphilis, and of these 196 were suffering from both Gonorrhea and Syphilis. 550 cases of acute Gonorrhea attended the clinics and 127 cases of stricture were treated. There were 75 cases of Epididymitis. Of this number, 63 patients had developed this complication before coming for treatment. 61 cases of Gonorrheal Rheumatism passed through our hands during the year, and we had 6 cases of Rectal Gonorrhea under treatment. There were 60 cases of Primary Syphilis and 12 cases of Late Syphilis affecting the nervous system. 151 patients suffered from Venereal Diseases which cannot be classified under either Gonorrhea or Syphilis, such as balanitis, non-syphilitic sores, etc., of the latter we had 97 cases. In 141 cases the diagnosis was not established, owing to the fact that the patients did not come back for further tests when asked to do so, 681 patients were examined and found to have no Venereal Disease. During the year, 440 patients were discharged as cured, this figure includes cases of Gonorrhea non-syphilitic sores.

The distribution of male patients is shown in the following table:—

Nicosia Larnaca Limassol F'gusta. Paphos Prisons

	—						
Syphilis only	105	35	41	24	24	11	
Gonorrhœa only							
Both Gonorrhea and							
Syphilis	62	32	16	53	20	13	
Other Venereal Diseases	40	33	22	44	8	4	
No Venereal Disease	267	79	127	85	120	3	
Examination not com-							
pleted	7	60	29	15	30	—	
Total number of new-							
cases	818	376	366	641	302	51	

Females.

Of the 1,194 new female patients, 524 were found to be suffering from Gonorrhæa and 106 from Syphilis, and 161 were infected with both Gonorrhæa and Syphilis. There were 122 cases of acute Gonorrhæa, 17 of which were children suffering from vulvo-vaginitis. We treated 37 women for Gonorrhæal Rheumatism during the year. There were 120 cases of acute salpingitis. Most of these had been suffering from Gonorrhæa for some time before they came to the clinic. There were 10 cases of Primary Syphilis and we saw 17 cases of late Syphilis affecting the nervous system. There were 91 patients suffering from other diseases of venereal origin, which cannot be classified under Gonorrhæa or Syphilis such as non-syphilitic sores, etc. 269 women were found on examination to be suffering from no Venereal Disease. 43 patients failed to return for further examination. Most of our female patients were married women who had become infected by their husbands. 167 professed prostitutes presented themselves for treatment.

The distribution of female patients is shown in the following table:—

Nicosia Larnaca Limassol F'austa, Panhos

	11000000	11011000	1201100000	gaota.	1 wpnoo
			_		
Syphilis only	57	11	13	 18	7
Gonorrhœa only	163	135	51	 95	80
Both Gonorrhœa and Syphilis	47	48	21	 21	24
Other Venereal Diseases	20	15	6	 40	10
No Venereal Disease	134	46	39	 20	30
Examination not completed	10	—	16	 7	10
				 	
Total number of new patients	431	255	146	 201	161

Progress of the Campaign.

It is well in considering this question to take all the Clinics separately and also consider the total figures for three Clinics that have been open for a period of three complete years.

Nicosia Clinic opened 19th January, 1928.

						0,				
			1929	19	930]	931	A	verage	,
Males—									`	
Primary Syphilis			68	• •	55		15		46	
Acute Gonorrhœa	• •		214	2	38	4	222		224	
Females—										
Primary Syphilis			7		7	: .	2		5	
Acute Gonorrhœa			81	• •	43		80		68	
Larna	ca C	linic	opened	l 8th (Octob	er,]	1928.			
Males—			_							
Primary Syphilis			32		11		13		18	
Acute Gonorrhœa			114		76		109		99	
Females—										
Primary Syphilis			3				2		1	
Acute Gonorrhœa			38		21		16		25	

C. 98715/32 [No. 1].

No.

PROOF.

CYPRUS.

THE OFFICER ADMINISTERING THE GOVERNMENT to THE SECRETARY OF STATE.

(Received 28th September, 1932.)

[Answered by No.

.

(No. 424.)

Sir, Government House, Troodos, 21st September, 1932.

I have the honour to transmit to you under separate cover 15 copies of the

Annual Medical and Sanitary Report for the year 1931.

2. The functioning of the medical and sanitary services during the year, as disclosed in the Report, was satisfactory. There is no doubt room for improvement, but it would appear to lie rather in the direction of the extension of these services

than of their reorganization.

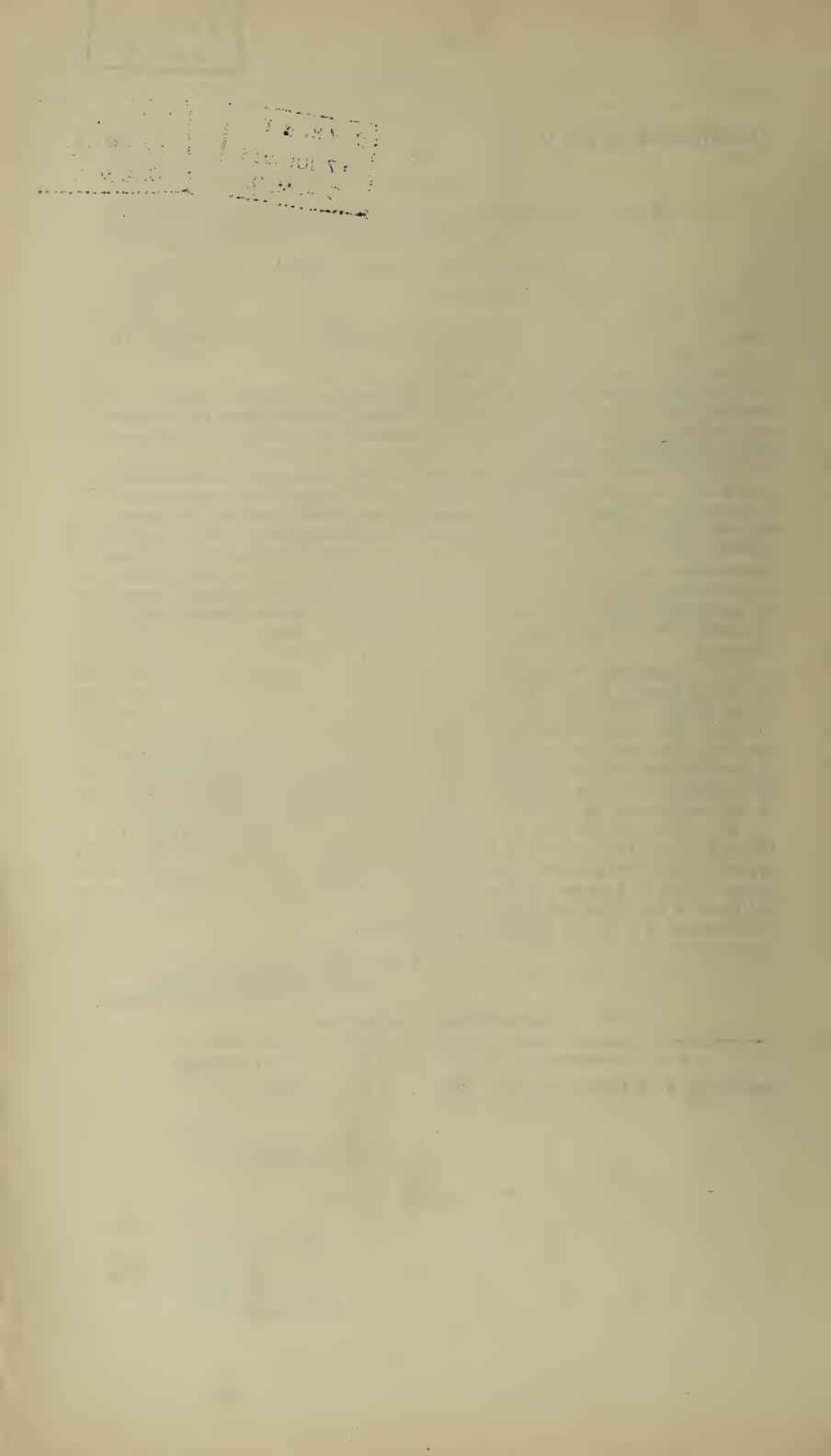
- 3. The Director of Health's specific recommendations for future work are contained in Section X of the Report. I am prepared to agree that the adoption of many of them would be desirable. All, however, involve extra expenditure, and so far from the provision of extra funds being possible, it will actually be necessary to reduce in 1933 the amount at present provided for the Health Department. Happily none of the recommendations are of immediate urgency. As they involve least expenditure, there is most prospect of being able to take some action in the near future on the recommendations for certain structural improvements to Nicosia Hospital and for the appointment of part-time Dentists in those Districts to which none have as yet been appointed.
- 4. The proposal to establish a Health Unit had, as you will be aware from Sir Ronald Storrs's despatch No. 439 of the 6th November, 1931,* to be abandoned on the ground of expense. I see no prospect of being able to revive it for some time to come. The recommendation for a campaign to install sanitary latrines in villages was dealt with in the same despatch; and in this connexion I would take the opportunity of observing with reference to the second paragraph of your despatch No. 14 of the 8th January, 1932,† that legislation to amend the Public Health (Villages) Law, is now under consideration with a view to improving sanitary conditions in rural areas.
- 5. As regards the final recommendation for a Central Registry Office, this is referred to more fully on page 11 of the Report. Complete details of Dr. Strathairn's proposal are not yet to hand. I would observe, however, that on the information at present before me I am not convinced that there is sufficient reason to alter the system laid down in the Births and Deaths Registration Law of 1895, even if funds for the establishment of a Central Registry were available.

I have, &c.,

H. HENNIKER HEATON,
Acting Governor,

^{*} No. 48 in Miscellaneous No. 420.

[†] No. C. 80405/7/32 [No. 3].



Limassol	Clinic	opened	22nd	D	ecember,	1928.
----------	--------	--------	------	---	----------	-------

44			1929	1930	1931	A	verage
Males—			-	-			_
Primary Syphilis	• •	• •	27.	. 9	11		16
Acute Gonorrhœa	• •	• •	173 .	. 54	104	• •	110
Females—							
Primary Syphilis	• •	• •	8.	. 3	2		4
Acute Gonorrhœa	• •	• •	21 .	. 20	10	• •	17
Famagusta	Clin	nic o	pened at	the end	of 1929	•	
			1930		1931		Average
Males—							11 berage
Primary Syphilis			49		11		30
Acute Gonorrhœa			82		49		65
Females—							
Primary Syphilis	• •	• •	15		2		8
Acute Gonorrhæa		• •	32		1		15
Panhos	Timia	0000		Managah	au 1020		
Paphos C	unic	oper					
20.5			1930)	1931		Average
Males—							
Primary Syphilis	• •	• •	18	• •	10	• •	14
Acute Gonorrhœa	• •	• •	20	• •	66	• •	43
Females—			4		2		•
Primary Syphilis	• •	• •	4	• •	$\frac{2}{2}$	• •	3
Acute Gonorrhœa	• •	• •	10	• •	15	• •	12
Combined figure for t	hree	year	s at Nice	sia, La	rnaca and	d Li	massol.
			1929		1930		1931
Males—			_				
Primary Syphilis			127		75		39
Acute Ğonorrhœa			511		368		435
Females—							
Primary Syphilis			18		10		6
Acute Gonorrhœa		• •	140	• •	84		106
			796		537	• •	586

It is difficult to arrive at a satisfying conclusion as to the reason for the reduction of figures for Syphilis and the smaller decrease of cases of Gonorrhea. There are so many factors to be considered. But I am of opinion that a real reduction is being effected and that such factors as might be accounted for by the passing of a new fashion need not be considered until the numbers of Gonorrhœa cases show a decided decrease.

REPORT OF THE GOVERNMENT BACTERIOLOGIST FOR THE YEAR 1931.

By Dr. Minnie Gosden, M.B., B.S., M.R.C.S., L.R.C.P.

The report for the year 1931 shows the second complete year's work since the Bacteriological Laboratory was organized as a separate unit, apart from

the Government Analyst's Department, in March, 1929.

The work during the year consisted of routine diagnostic investigations for Government and private medical practitioners and public health investigations, and has been of a very varied character. The total number of specimens examined was 9,612, which is a decrease of 4 on the previous year. There was a decrease of 276 in the specimens from the V.D. Clinics and 120 in the number of films examined for malaria. There was an increase in all other examinations, especially in pathological examination of tissues, sputum, pharyngeal swabs, and drinking water.

The examinations performed and positive results are shown in detail in

table II.

The source of the specimens examined is still mainly from the medical officers of Nicosia Hospital (1,191) and the V.D. Clinics (7,105), there has been a considerable increase in the specimens sent from Limassol Hospital (253).

The services of the laboratory have been much more used by private practitioners during the year, who sent 284 specimens compared with 140

during 1930.

The source and number of specimens received is shown in table I.

The staff of the laboratory was the same as last year, and consisted of:—

1 Bacteriologist.

1 Bacteriological Laboratory Assistant.

1 Clerk (part time).

1 Attendant and cleaner.

The services of the clerk and attendant were still shared with the Government Analyst, and the sharing of an attendant is not satisfactory to anyone concerned.

The Bacteriologist wishes to express appreciation of the loyal help and co-operation afforded by the rest of the staff, without which the work of the Laboratory could not be carried on.

Additions to Revenue.

A total of £48 5s. 4cp. was received in fees for laboratory investigations. The policy of carrying out tests for the commoner diseases prevalent in Cyprus, viz., phthisis, leprosy, enteric fever, malaria, dysentery, free of charge for private practitioners was continued, and from the increased use made of these facilities this seems to have met a need in the health work of the Island.

OTHER DUTIES.

In addition to work in the Laboratory, the Bacteriologist gave lectures, and acted as examiner to the Sanitary Inspector's School, and also gave 2 lectures to school teachers.

(1) ROUTINE DIAGNOSTIC INVESTIGATIONS.

COMPLEMENT FIXATION TESTS.

5,107 sera from treated and untreated patients were received for Wassermann reactions. Of these, 954 gave a strongly positive and 308 a weekly positive reaction. 3 cerebro spinal fluids were positive. The method used, as formerly, was that of McIntosh and Fildes.

The results of examinations for the different V.D. Clinics open in 1931 are shown in detail in table III. The total number of sera sent is slightly less than last year, while the percentage of positive reactions, except for a decrease from Famagusta and Paphos, shows little alteration, Limassol, as formerly, has the highest percentage of positive reactions.

14 sera were tested for hydatid infection, by the Weinberg reaction, with

4 positive results.

a/

AGGLUTINATION TESTS.

200 agglutination tests were performed, positive results occurred with the following organisms:—

B. typhosus 84, B. paratyphosus A 18, B. paratyphosus B 5, B. dysenteriæ flexner Y 2.

During the year, many sera giving a negative reaction with B. typhosus and B. paratyphosus A and B, were tested against Br. melitensis and B paratyphosus C with no positive results.

The sera of one goat sent by the Veterinary Officer, agglutinated Br. melitensis.

BLOOD FILMS.

345 films examined for malaria parasites gave 77 positive results in the following proportions:—

P. falciparum 44, with gametocytes present in 13, P. vivax 31 with gametocytes present in 5, P. malariæ in 2.

Table IV shows the parasites found in different months. It is realized that these results do not give an adequate picture of the prevalence of malaria in Cyprus. Owing to change of staff at Nicosia Hospital, fewer films were sent from out-patients with malaria, and films are not sent from rural dispensaries. The table shows, however, the same prependerance of subtertian infections in the hot months, as was noted last year.

BLOOD COUNTS.

84 blood counts were performed. The principal findings was an anæmia of secondary type in 20 cases. Many were of a severe type, the etiology of these cases of anæmia is not clear, they are said to follow malaria, but parasites, (P. falciparum gametocytes) were found in only one case. Others are associated with pregnancy in young women and especially in Moslem women.

BLOOD GROUPING.

17 donors were tested against patients sera for hæmagglutination before blood transfusion. This direct method was used as group sera were not available.

Seven blood transfusions were carried out by the Surgical Specialist and the Bacteriologist during the year for the following conditions:—

Purpura.—In a patient with recurrent purpura and bleeding from the mucous membranes. The patient ultimately recovered after 4 transfusions.

Blackwater Fever.—This was the second case in which blood transfusion was carried out for this condition, once during the continuance of hæmolysis and, in this case immediately after it ceased for the sereve anæmia. In both cases the immediate improvement in the patients was marked. They were both clinically severe cases, both recovered.

Severe Anæmia and Pregnancy.—In a patient with a positive Wassermann reaction. The blood count on admission to hospital was red cells 2,037,500 per c.m. and the patient was breathless and ædematous. On the day following the transfusion she was delivered spontaneously of a macerated fætus and ultimately recovered.

Hæmorrhage from a Gun-shot Wound.—The patient was admitted in a very collapsed condition, he rallied for a while after the transfusion, but died on the following day.

Citrated blood was used in all cases. There is often considerable difficulty in Cyprus in persuading relatives to be donors, and the prevalence of syphilis and malaria makes a careful blood examination of donors imperative.

BIOCHEMICAL BLOOD EXAMINATIONS.

14 estimations of blood urea and 8 of blood sugar were carried out.

PATHOLOGICAL FLUIDS, PUS, ETC.

26 specimens were examined, B anthracis being found in 2, streptococci in 4, staphylococcus aureus in 2, and B. tuberculosis in l. 47 cerebro spinal fluids showed the presence of B. tuberculosis in 2, pneumococci in 3, and streptococci in 1. Meningococci were not found during the year.

URETHRAL AND CERVICAL SMEARS.

2,038 smears were examined from the Venereal Diseases Clinics and other sources, gonococci were found in 713. The results from the Venereal Diseases Clinics are shown in detail in table III. As noted in the Wassermann reactions, the total number is a little less, but the percentage of positive results, except for a decrease from Famagusta and Larnaca, remains much as last year. Limassol still shows the highest percentage of positive findings (66%).

SPUTUM.

397 specimens examined showed the presence of B. tuberculosis in 143.

PHARYNGEAL SWABS.

111 swabs were cultured from suspected cases of diptheria. 22 were positive, streptococci were grown from 20. The diptheria bacilli were morphologically typical, virulence tests were not carried out.

FAECES.

61 specimens of fæces were examined microscopically and by culture.

10 of these were cytologically probably bacillary dysentery without the casual organisms being isolated, from 8 others dysentery bacilli were isolated. In 3 cases B. shiga, and in 5, organisms of the Flexner group. B. shiga was isolated from the stools of two children in a village where an epidemic of dysentery of a severe type occurred in the Summer. Entameba Histolytica was found 3 times. Litmus Lactose agar plates were used to isolate colonies.

URINES.

484 specimens of urine were examined. B. tuberculosis was found in 3 and B. coli in 2. Hæmoglobin or its derivatives were found in 2.

HISTOLOGICAL EXAMINATIONS.

There was a considerable increase in the pathological work during the year, 153 specimens being received compared with 81 last year. The pathological findings are shown in detail in table II. Most of the specimens were tumours, malignant and non-malignant. A specimen of interest was of spontaneous rupture of the myocardium in a woman with syphilitic aortitis and obliterating endarteritis of the coronary arteries. 2 smears from splenic puncture examined for kala azar were negative, as was also the brain of a dog examined for suspected Rabies.

EXAMINATION FOR LEPROSY.

221 nasal scrapings and skin clips were examined for B. lepræ which were found in 74 nasal scrapings and 73 skin clips. The periodic examinations of patients in the Leper Farm account for most of these findings.

(2) POST-MORTEM EXAMINATIONS.

4 post-mortem examinations were performed by the Bacteriologist, the cause of death being as follows:—

Tuberculous meningitis, puerperal pyæmia, lobar pneumonia and a ruptured aortic aneurism. The aneurism was of the dissecting variety lying behind the descending thoracic and abdominal aorta in a woman with extensive syphilitic aortitis. Rupture occurred into the pleural cavity.

(3) VACCINES.

8 autogenous vaccines and 160 c.c. of mixed T.A.B. vaccines were prepared in the Laboratory.

(4) PUBLIC HEALTH INVESTIGATIONS.

WATER SURVEY OF CYPRUS.

Drinking Waters.

A monthly examination of waters from different parts of the Island representative of the different types of supply available extending over a year was started in July in conjunction with the Government Analyst. The actual results obtained up to the end of 1931 are included in table VII. It is hoped to publish a paper correllating all the scientific data, nature of source, physical and chemical findings, meteorology, etc., with the bacteriological results, when the survey is completed.

55 specimens from other sources were also examined with the results shown in the table VII.

RATS, AND RAT FLEAS.

The examination of rats from the ports for possible infection with B. pestis was started in April. 28 rats were examined, no evidence of infection was found.

The rats were caught by the Sanitary Inspectors, who examined them and sent smears from the spleen to the Laboratory for examination. The source of the rats is shown in table V.

The method of staining used was 1% of a saturated watery solution of methylene blue for $\frac{1}{2}$ minute.

Fleas from 17 rats caught at Famagusta and Limassol, were collected for identification, with results shown in table VI.

The number of specimens examined is small, but show that the commonest rat flea found was Xenopsylla Cheopis, and the flea index at Famagusta was over 5 in July and August.

DISINFECTANTS.

A sample of crude disinfectant was examined for suitability for sanitary purposes.

(5) VARIOUS.

19 specimens were sent by the Veterinary Officers, 12 being tissues for histological examination, mainly in connection with an investigation into fowl paralysis.

The Veterinary Department now has its own laboratory staff.

LABLE I.

		elatoT'	250 367 387 185 253 253 253 343 343 343 111 111 115 115 115 115 115 115 115 11	9,612
		Culture for Examination		73
	rous	вэпіээв V		œ
	VARIOUS	slesni tesT		1
	tri I	JnstoelnieiG		1
	HEALTH ATIONS	Fleas	16	11
	Public Health Examinations	staA	272	28
		erətsw gnixarinG		202
	m	Brain rabies		-
	GICAI	Spleen smears	- -	63
	PATHOLOGICAL EXAMINATIONS	Post-mortems		4
1.	Pari Exa	-olotziH 101 əuzziT noitznimzxə İzsig		153
RING 1931.		səninU		484
ED DUE	ETC.	Faleces	$ \begin{vmatrix} 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1$	61
RECEIV	Excreta,	Pharyngal swabs		111
SOURCE OF SPECIMENS RECEIVED DU		Scraping for leprosy	39	221
E OF SPI	Exudates,	umandg		397
Sourc	Pus, I	Urethral and cervical snears		2,038
		C.S.F.		47
		Pus & exudates		26
		gniquorD		17
		Biochemical		22
		noitenitulggA		200
	Broop.	mnsm19228W		5,107
	Brc	StadniaW		14
		Culture		14
		stanoO		84
		Films.		345
		Senders	Director of Health Surgical Specialist Consulting Surgeon Consulting Physician V.D. Specialist D.M.O., Nicosia D.M.O., Larnaca D.M.O., Larnaca D.M.O., Paphos Med. Officer, Troödos Govt. Bacteriologist Asst. D.M.O., N/sia. Med. Officer, Kilani Med. Officer, L/kara Med. Officer, Lichkara Med. Officer, Lichkara Med. Officer, Lichkara Med. Officer, Athienou Med. Officer, Athienou Med. Officer, Pedoulas Med. Officer, Ryrtou Med. Officer, Trikomo Med. Officer, Tricops Travelling Oculist Med. Offic., Troops Priv. Practitioners Govt. Analyst Veterinary Officers Sanitary Inspectors	Totals

TABLE II.

Examinations PE	RFORM	ED AND POSITIVE FINDINGS.	
Examinations	No.	Principal Positive Findings	No.
BLOOD.			
1. Films for parasites	345	P. falciparum	44
		Gametocytes present	13
		P. vivax	31
		Gametocytes present	5
		P. malariæ	2
2. Counts	84	<i>y</i>	20
		Neutrophil luecocytosis	11
		Lymphocytosis	1
		Anæmia with high C.I	1
	71.4	Myeloid leukæmia	2
3. Culture	14	Streptococci	2
4 D' 11	99	Staphylococcus aureus	1
4. Biochemical	22	Estimation of urea	14
~ ~		Estimation of sugar	8
5. Serum reactions	200	70 (1	
(a) Agglutination	200	B. typhosus	84
		B. paratyphosus A	18
		B. paratyphosus B	5
		B. flexner Y	2
		Br. Melitensis (Vet. specimen)	1
(b) Complement fixation	7.4	D ''	
Weinberg reaction			4
Wassermann reaction	5,107	Positive	954
	2.00	Weakly positive	308
6. Grouping	17		
Pus and Pathological Flui		Ct 1 1	
1. Pus	16	Staphylococcus aureus	2
		Streptococci	4
		B. tuberculosis	1
0 701 1 00 1	ے	B. anthracis	$\frac{2}{3}$
2. Pleural effusions	5	Cells lymphocytes	3
	0	Purulent effusions	2
3. Peritoneal effusions	3		
4. Effusion from joint	1	Pus present	1
5. Hydatid fluid	1		
6. Cerebro-spinal-fluids	47	Excess of cells, lymphocytes	5
		Excess of cells, leucocytes	1
		Wassermann reaction positive	3
		B. tuberculosis present	$egin{array}{c} 3 \ 2 \ 5 \end{array}$
		Pneumococci present	
- TY (1 1 1 1 1 1		Streptococci present	1
7. Urethral and cervical	9.090	Congagni	
	2,038	Gonococci present	713
8. Sputum	397	B. tuberculosis present	143
9. Smears for leprosy	221	Lepra bacilli in nasal scrapings	74
10. Dhammadal arraha	111	Lepra bacilli in skin clips	73
10. Pharyngeal swabs	111	Klebs Læffler bacilli grown	22
		Streptococci	$\frac{20}{2}$
Faces	61	M. catarrhalis	2
Faeces	01	Blood and pus present	10
		Organisms of flexner group isolated	~
		B. dysenteriæ shiga isolated	5
			3
		Entamœbæ histolytica: Free forms	1
		Cysts	0
		Entamœbæ coli	$rac{2}{2}$
		Giardia lamblia	1
		Ova of ascaris lumbricoides	1
		o , a of assails fullibility of the	1
Carried forward	8,704	Carried forward	2,635

Examinations .	No.	Principal positive Findings		No.
D . I. f	0.704		6	
Brought forward	•	Albama on managed	2	2,635
Urines	484	Albumen present	• •	45 37
		Sugar present Bile present	• •	2
		Acetone present	• •	1
		Oxalates in deposit	• •	18
		Uric acid in deposit	• •	
		Casts in deposit	• •	3 1
		Pus in deposit	• •	35
		Hæmoglobin		2
		Blood	• •	$1\overline{2}$
		Estimation of chlorides		4
		Estimation of urea	• •	$\overline{4}$
		B. coli present		4 2 3
		B. tuberculosis present		3
		Staphylococcus aureus prese	\mathbf{nt}	1
PATHOLOGICAL EXAMINATION	NS.			
1. Tissues for histological examination	. 153	1. Malignant Tumours		
cxammanon	. 100	(a) Carcinoma		
		Cervix uteri		7
		Corpus uteri	• •	2
		Malignant adenoma	of	
		uterus	01	1
		Skin (basal celled)		3
		Skin squamous celled		9
		Breast	• •	
		Stomach	• •	5 1
		Rectum	• •	1
		Bladder	• •	1
		Lymphatic gland (second	ary)	
		Liver (primary)	• •	1
		(b) Sarcoma:		
		Connective tissues	• •	10
		Mouth	• •	1
		Uterus	• •	1
		Melanotic	• •	1
		Mixed tumour parotid gla	nd	1
		Myeloma of bone	• •	2
		2. Non-Malignant Tumour	RS	-
		Fibro-adenoma, breast	• •	1
		Fibro-myoma, uterus	• •	ე 1
		Uterine polypus Fibroma	• •	$\begin{matrix} 3\\1\\2\\1\end{matrix}$
		n r	• •	1
		Myxoema Hæmangioma	• •	$\frac{1}{2}$
		Papilloma skin	• •	1
		Cyst of thyroid		i
		Adenoma, thyroid		î
		Cancellous osteoma	• •	ī
		3. Inflammations		
		Tuberculous		
		Lymphatic gland	• •	2
		Bladder	• •	1
		Epididymis	• •	2
		Appendix	• •	1
		Syphilitic		
		Gumma	• •	1
		Aortitis and rupture	of	
		heart	• •	1
		Purulent	• •	11
		Hodgkins lymphadenom		2
		4. PRODUCTS OF CONCEPTION	N	
		Chorionic carcinoma	• •	2
Carried forward	9,341	Carried forward		2,891

Examinations	No.	Principal Positive Findings	No.
Brought forward	9,341		
PATHOLOGICAL EXAMINATION TISSUES FOR HISTOLOGICAL	ONS.		2,091
EXAMINATION—continued	_	5. VARIOUS	
		Hypertrophy of breast (ma Chronic interstitial mastitis Hydronephrosis Hydronephrosis (congenital)	le) 1 1 1
	6	. VETERINARY	_
		Acute hæmorrhagic nephri (horse)	1
		Acute hæmorrhagic nephritis (sheep)	$^{\circ}$
2. Post Mortem examination	ons 4	T. B. meningitis	$\tilde{1}$
		Pyæmia, puerperal	1
		Ruptured aortic aneurism Lobar pneumonia	1 1
3. Spleen smears for Kala a 4. Brain of dog for rabies	1	Down phountons	
PUBLIC HEALTH SPECIMENS Drinking water	20#	See Sanarata Tabla	
Rats for plague	207	See Separate Table.	
Fleas for identification	17	Xenopsylla cheopis	77
		Leptopsylla musculi Ctenocephalus felis	14 1
Disinfectant	1	Coenocephaius iens	1
Various.			
Fractional test meal	1	Stanbulaceasus aurous	5
Autogenous vaccines	8	Staphylococcus aureus Mixed streptococci, staphyl.	5
		aureus and M catarrhalis	1
		B. coli Streptococci	1
Cultures for examination	2	Streptococci	
Total	9,612	TOTAL	3,002
T.	TABL		
·		EAL DISEASES CLINICS.	
U ret	nrai ana Ge No. se	ervical Smears. ent. Positive % positiv	ρ
		- / ₀ positio	.
Nicosia	708		
Larnaca Limassol	45		
Famagusta	340		
Paphos	290	3 59 31	,
Total	2,02	$\frac{}{3}$ $\frac{}{709}$ $\frac{}{35}$	
		=======================================	
Δ		unn Reactions. Positive % positive Doubtful % d	loubtful
Nicosia	1,825 941	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6
Larnaca Limassol	$656 \dots$	$136 \dots 21 \dots 29 \dots$	4
Famagusta	986	164 17 69	7
Paphos	624	114 18 35	5
${ m Total}$	5,032	$\frac{-}{938}$ $\frac{-}{}$ $\frac{-}{308}$	
10001			

TABLE IV.

MALARIA PARASITES FOUND IN DIFFERENT MONTHS.

J	January February		У	March		April		May		June							
Pv.	Pf.	Pm.	Pv.	Pf.	Pm.	Pv.	Pf.	Pm.	Pv.	Pf.	Pm.	Pv.	Pf.	Pm.	Pv.	Pf.	Pm.
1	2	0	5	1	1	1	2	0	2	0	0	6	0	1	1	2	0
	July		I I	Augus	t	Se	pteml	oer	О	ctobe	er	N	oveml	oer	D	ecemb	er
Pv.	July Pf.	Pm.	Pv.		Pm.		- [Pm.		1	Pm.		1	

TABLE V.

EXAMINATION OF RATS.

		April		May		June		July	£	August
Limassol		0		$\frac{-}{2}$	• •	8		$\frac{-}{2}$		$\frac{-}{2}$
Larnaca	• •	0		0	• •	1	• •	$\bar{0}$	• •	$\bar{0}$
Famagusta	• •	1	• •	3	• •	1		0		1
Kyrenia		0	• •	0	• •	1	• •	0		1
		_				-		—		
Total	• •	1	• •	5	• •	11	• •	2		4
		=				=		=		
	S	eptemb	er	October	Λ	Novemb	er $D\epsilon$	ecember	•	Total
	S	eptemb	er	October —	Λ	Novemb	er $D\epsilon$	ecember —	•	Total
Limassol		eptember — 1	er 	- 0	Λ	$\begin{array}{c} Novemboo \\ \\ 1 \end{array}$	er $D\epsilon$	$\frac{ecember}{0}$		Total
Limassol Larnaca		eptembe 		—		$ \begin{array}{c} $				
	• •			- 0	• •	1	• •		• •	
Larnaca	• •	1 0	• •	 0 0	• •	1	• •		• •	$\frac{-}{16}$
Larnaca Famagusta		1 0 1	• •	0 0 0	• •	1 0 1	• •	0 1 0	• •	-16 2 8
Larnaca Famagusta		1 0 1	• •	0 0 0	• •	1 0 1	• •	0 1 0	• •	-16 2 8

TABLE VI.

EXAMINATION OF RAT FLEAS

Limassol.

	n							
Month	Xenopsylla Cheopis	Total	Leptopsylla Musculis —	Total	Ctenoce- phalus Felis	Total	No. of Rats	Flea Index
May	1 f.	1			_			<u> </u>
June	16 f. 14 m.	30	2 f. 3 m.	5	1	1	7	5.1
July	6 f. 8 m.	14			_		i	14
Aug.	9 f. 10 m.	19	_				2	9.5
Sept.	2 f. 3 m.	5	1 f.	1	_		1	5
Total	-	69	—	6		1	12	_
			Famagusta.					
April			1 m.	_			1	1
May	4 f. 3 m.	7	4 f. 4 m.	8	_		3	5
June	1 f.	1	_	-			1	1
Total		8		8			5	_

TABLE VII.

WATER EXAMINATIONS DURING 1931.

Name of Source		ŧ	Month —	No. of orga- nisms deve- loping on agar at 37°C in 1 cc.	B. coli	Atypical coliform organisms.
						
Kannoures source Palækhori	••		March	80	+ in lcc.	_
Kridhia locality Yoghan			March	165	+ in 5cc.	_
Mazakambos, Pendakomo spr			April	20	—in 20cc.	
Mesayitonia overflow, Ayios I		ality	April	120	+in lcc.	_
Mazorka spring, Palæomylos Kato Vrysi Dimes spring	••	• •	April	35	—in 20cc.	_
	• • • • •	• •	April April	$\begin{array}{c} 30 \\ 40 \end{array}$	+ in 10cc. —in 20cc.	
Kligi new spring, 1 mile from Y		••	April	340	—in 20cc.	+in 20cc.
Paphos reservoir		• •	April	50	+in 5cc.	— —
Mr. Pastellides well	••	• •	April	790	+in lcc.	
Police station, Limassol	••	• •	April	20	+in 10cc.	
Limnati, Ayios Mammas	cahool gardor	• •	May	180	+in lcc.	
Lakkos tou Costi, well pipe ir Orta Couyou, Photta	school garden	• •	$egin{array}{c} ext{May} \ ext{June} \end{array}$	1,010 250	+in lcc.	_
Tatli Couyou, Photta	• • • • • • • • • • • • • • • • • • • •	• •	June	1,950	+in lcc.	_
SpiliaVrisi		• •	June	100	+in lcc.	
Pikardou piped supply			June	20	+in lcc.	
Pikardou wells at Appides	••	• •	June	125	+in lcc.	
Pendakomo village	••	• •	June		+in lcc.	
Apaeshia Mersinaki	••	• •	July	80	+in 5cc.	_
Phota village, Ak. Pounar Well in Pedias river, Mia Mile	• • • • • • • • • • • • • • • • • • • •	• •	July July	70 370	+in 5cc. +in 1cc.	;
Ayios Mammas spring Frakte		• •	August	3,320	+in 0.1cc.	
Troödos		• •	August	10	+in 20cc.	_
Troödos, Tap 1		• •	August	10	+in 10cc.	
Troödos, Tap 2			August		—in 20cc.	+in 20cc.
Troödos, Tap 3	• • • • •	• •	August	80	+in 20cc.	
Troödos, Tap 4	• • • •	• •	August			+in 5cc.
Machæra, Arkadjidou	Tomografo	• •	August	160	+in 0.1cc.	_
Aqueduct by Ayios Memnon, Potamiou spring, Argaki tis V		• •	August Septembe	145 or 6 200	+in 0.1cc. +in 0.1cc.	_
Mesana village	risis	• •	Septembe		—in 20cc.	_
Pighi, Lefkara		• •	Septembe		+in lcc.	
Aqueduct near Ayios Memnor		• •	Septembe		+in 0.1cc.	
Wells at Lefkara	• • • •••	• •	Septembe	•	+in 0.1cc.	_
Church fountain, Lefkara	• • • •	• •	Septembe		+in 5cc.	
Ayios Trikhonas well Vouppo		• •	Septembe October		+in 0.1cc. —in 20cc.	
Parsonage house, Nicosia Vrysi Modihos, Kyrenia	• • • •	• •	October	150	—III 2000.	+in 0.1cc.
Pilleri village, Kyrenia	• • • • • • • • • • • • • • • • • • • •	• •	October	220		+in 0.1cc.
Kyparissi spring, Pyrgos	• • • •	• 1	October	290	+in 0.1cc.	_
Stream Athiænou		• •	October		+in 0.1cc.	—
K. Michaelis well, Athiænou	• • • • •	• •	October		+in 0.1cc.	_
Haji Marios well, Athiænou	• • • •	• •	October October		+in 0.1cc.	_
P. Paras well, Athiaenou Well near Armenian cemetery	• • • •	• •	October		+in 0.1ccin 20cc.	— ⊢in lee
Deposit tank of C. Mamas	• • • •	• •	October		—in 20cc.	
Deposit tank of Th. Ouranios			October		+in 0.1cc.	—
Deposit tank of Pambakian		• •	October		—in 20cc.	+in lcc.
Mintselli, Orta Keuy	• • • • •	••	November		+in 0.1cc.	
Army Camp's kitchen	• • • •	• •	November November			+in lcc.
Spring Lakki locality	• • • •	• •	November			+in 0.1cc. +in 0.1cc.
Aphantia Syrianokhori Artesian well	• • • • • • • • • • • • • • • • • • • •	• •	December		—in 20cc.	—
Syrianokhori Artesian well		• •	December		—in 20cc.	
Mr. Televantos house		• •	December			+in 10cc.
Syrianokhori well with pump		• •	August		+in 5cc.	
			September		+in 0.1cc.	_
			September October		+in 0.1cc. +in 0.1cc.	
		•	November	•		+in lcc.
			December		+in lcc.	_
Kythræa, Kefalovrisos spring			September		—in 20cc.	_
1xy unitaa, 1xotato vinos spring			October		—in 20cc.	_
			November		—in 20cc.	. —
			December	40		+in 5cc.

Name of Source			No. of org nisms dev Month loping on	e- B. coli	Atypical coliform organisms
			$$ $agar\ at\ 37$ $in\ 1cc.$	0.	
Larnaca. Pasha Chiftlick aqued deposit	uct, Kouppi	main ••	July 50 August 200 September 120 October 20 November 20 November 120 December 80	+in lcc. +in 0.lcc. +in 0.lcc. +in 1cc.	+in 0.1cc. +in 0.1cc.
Lefkara. Ayios Andronikos fou	ntain	••	September 150 October 40 November 120 December 50	+in 5cc.	
Famagusta wells	••	• •	August 390 September 540 October 70 November 210 November 60 December 110	+in 0.1cc. +in 1cc. - +in 0.1c	-in 0.1cc.
Varosha Artesian well	\$10 \$10	••	August 75 September 30 October 80 November 100 November 60 December 80	+in 1cc. +in 5cc. — — —	+in 0.1cc. +in 1cc. +in 5cc. +in 1cc.
Nicosia, Silictar supply		• •	August 100 August 130 September 150 October 30 November 290 December 210	+in 1cc. +in 0.1cc. +in 0.1cc. +in 0.1cc. +in 0.1cc. +in 0.1cc.	
Nicosia, Strovilo supply	••	••	August 330 August 850 September 80 October 600 November 210 December 110	+in lcc. +in 0.lcc. +in 0.lcc. +in 0.lcc. +in 0.lcc.	_
Nicosia, Anemomylos supply		• •	August 40 August 60 September 80 October 270 November 50 December 970		+in lcc. +in lcc. +in 0.lcc.
Nicosia, Ayia Paraskevi Source	• • •••	• •	August 10 August 20 September 20 October 10 November 20 December 3,650	—in 20cc. —in 20cc. —in 20cc. —in 20cc. —in 20cc. —in 20cc.	 +in 0.lcc.
					contamin- ated in
Morphou supply		••	June 180 August 10 September 20 September 20 October 50 November 20 December 50	+in 10cc. —in 20cc. +in 1cc. —in 20cc. —in 20cc. +in 10cc.	sampling. — — — — — — — — — — — — — — — — — — —
Lefkoniko	••	• •	September — October 90 November 320 December 900 December 100	+in foce. +in fcc. +in lcc. +in lcc	- - - +in 5cc. +in 1cc.
Akanthou		••	September 80 October 90 November 60 December 10 December 30	-in 10ccin 20cc.	+in 5cc. +in 10cc. +in 10cc.

Name of Source		No. of o	eve- B . $coli$	•
		— loping o agar at s	$37^{\circ}C.$	organisms —
Leonarisso	••	July 540 November 520	+in 1cc. —in 20cc.	_
		December 20	—in 20cc.	
		December 50		+in 10cc.
Limassol pumping station	• • • • •	April 45 July 20	+in 10cc.	 +in 5cc.
		August 30	+in 5cc.	+m 5cc.
		September 30 October 60	+ in 5cc. + in 20cc.	_
		November 50	—in 20cc.	_
T. 1 D.1 .1.		December 70	+in 5cc.	
Limassol, Polemidia camp	• •	April 5,000 August 20	- $+$ in 20cc.	+in 10cc.
		September 30	_	+in 5cc.
		October 30 November 260	+in 10cc.	
		December 40	+in 20cc.	· —
Paphos Police Station		April 100	+in 10cc.	_
		October 330 November 190	+in 5cc. —in 20cc.	
		December 40	_	+in 5cc.
Platræs, main deposit		Scptember 10	—in 20cc.	
		October 30 November 10	—in 20cc. —in 20cc.	
			lcc.—in 20cc.	_
Prodromos, Hardji locality		April 10	—in 20cc.	
		September 10 October 30	—in 20cc. —in 20cc.	
		December 60	—in 20cc.	_
Omodhos, main deposit		September 40	—in 1cc.	
		October 3,000 November 20	+in 0.1cc. $+$ in 5cc.	_
		December 110	+in 10cc.	_
		December 600	_	+in lcc.
Kyrenia, Boghaz source	• • • • •	July 10 August 30	—in 20cc. —in 20cc.	
		September 20	—in 20cc.	_
		October 40 November 10	—in 20cc. —in 20cc.	
		December 20	—in 20cc.	—
Lapithos, Kefalovrisos source		July 300		+in lec.
		July 20 August 40	—in 20cc.	+in 1cc.
		September 20 October 30	+in 10cc.	<u> </u>
		November 30	—in 20cc. —in 20cc.	_
		December 1,200	—in 20cc.	_
Evrykhou		July 20 September 300	—in 20cc.	
		October 270	—in lee.	+in 0.1cc.
		November 10 December 20	—in 20cc. —in 20cc.	_
Manuton		July 70	+in 5cc.	
Myrtou	• • • •	August 70	+in $0.1cc.$	_
		September 70 October 70	-in 1cc. $-$ in 20cc.	_
		November 10		+in 5cc.
		December 180		+in lcc.
Agros, Kavouros source	• •	August 40 September 30	+in 0.1cc. -in 20cc.	
		October 10	—in 20cc.	
		November 20 December 50	—in 20cc.	-in 10cc.

APPENDIX D.

ANNUAL REPORT OF THE GOVERNMENT ANALYST FOR THE YEAR 1931.

By Dr. S. G. Willimott, Government Analyst.

The year 1931 was a difficult one for many reasons but in spite of this it is satisfactory to be able to report that the activities and progress previously recorded were well sustained during the year. The task of re-organization was completed and the Laboratory reached its full working capacity.

The staff during 1931 was as follows:—

Government Analyst. Assistant Analyst.

Laboratory Assistant (temporary). Laboratory Attendant (part-time).

Laboratory Clerk (part-time).

The Government Analyst was on leave from July 23 to November 22, during which time Mr. L. C. Haralambides took over duty as Acting Government Analyst. Mr. G. P. Kalavas, who acted as Laboratory Assistant, was engaged principally for extra work involved by the inception of the Water Survey Scheme. The services of the Laboratory Attendant and Clerk, because of financial stringency, have still to be shared with the Bacteriological Laboratory.

The work of the Government Laboratory for 1931 may be conveniently considered under three main headings:—

Part I.—Official routine work.

Part II.—Research.

Part III.—Summary on the re-organization of the Laboratory.

PART I.—OFFICIAL WORK.

The total number of analyses carried out was 1,812 as compared with 1,546 in 1930, representing an increase of over 17% in the general analytical work of the Laboratory. The number of samples examined, however, represents part only of the activities of the Laboratory since a considerable amount of lecturing and research in now undertaken. The increases were made up chiefly from food and drugs, waters and commercial samples. The total number of analyses made during 1931 compared with that of the previous decade is shown in Table I.

TABLE I.

TOTAL ANALYSES MADE DURING THE LAST DECADE.

Year.			Total.
1921	 		1,269
1922	 		1,448
1923	 		1,814
1924	 	• •	2,195
1925	 		1,834
1926	 		1,999
1927	 		1,850
1928	 		4,805*
1929	 		1,713*
1930			1,546
1931			1,812
1001			

* Includes Pathological specimens.

The total for 1931 may be divided into official and non-official samples and classified under the different headings shown in Tables II. and III.

TABLE II.

Official	Sampl	les (1931)	•
Food and Drugs	• •		778
Criminal		• •	449
Waters	• •	• •	262
Customs and Excis	e	• •	22
Miscellaneous	• •	• •	66
Research	• •		154
Veterinary		• •	11
Biochemical		• •	7

Total.. .. 1,749

TABLE III.

Non-official Samples (1931).

Animal Viso	era			20
Food-stuffs				20
Galvanized	Sheets			5
Paper		• •	• •	5
Waters	• •			5
Leather			• •	2
Limestone	• •	• •	• •	1
Miscellaneo	us	• •	• •	7
1	Total	• •	• •	63
	Gr	and To	otal	1,812

The samples falling under different headings are considered in some detail in the following sections:—

SECTION I.—FOOD AND DRUGS.

In Table VI are summarized data showing the number of each kind of food-stuff or drug examined and the proportion of samples adulterated.

TABLE IV.—Food and Drugs Analyzed With Per Cent. Adulteration.

Sample			Number	Adulterated	Per cent. Adulterated	
Flour Bread	• •		55 17	nil nil	nil nil	
Biscuits	• •	• •	$\frac{3}{1}$	nil nil	nil nil	
Rice	• •		237	58	20.2	
Tea	• •		8	nil	nil	
Milk.	• •	• • }	83	14	16.8	
Condensed Milk	• •	• •	$\begin{array}{c} 18 \\ 34 \end{array}$	l nil	5.5 nil	
Olive Oil Sesame Oil	• •		14	nil	nil	
Butter	• •		12	nil	nil	
Cocolina	• •		10	nil	nil	
Margarine	• •	• •	3	nil 1	nil 2.5	
Salt	• •	• •	$\frac{39}{15}$	nil	nil	
Pepper Mustard	• •		$\overset{10}{2}$	nil	nil	
Tomato Paste	• •		22	2	9.1	
Sugar	• •	• •	34	nil	nil	
Syrup	• •	• •	$\frac{1}{3}$	nil 1	nil 33.3	
Sweets Cheese	• •	•	30	1	3.3	
Sardines	••		63	5	7.9	
Herrings	• •	• •	30	5	16.6	
Mineral Water	• •	• •	23	nil nil	nil nil	
Lemonade	• •	• •	1	nil	nil	
Vichy Water Peppermint	• •	• •	$\frac{1}{3}$	nil	nil	
Aspirin	• •	• •	1	nil	nil	
Quinine	• •	• •	15	nil	nil	
Total	• •	• •	778	88	11.3	

The total of 778 official samples represents an increase of 78 samples as compared with that of the previous year and there was an increase in the adulteration rate from 7.7 in 1930 to 11.3 in 1931. The number of prosecutions under the Food and Drugs Law was 65 and the fines inflicted amounted to £41 10s. The food-stuffs found to be adulterated were principally coffee and milk and the districts in which adulteration appeared to be most extensive, Nicosia and Larnaca. Some form of starch was used for the adulteration of the coffee while the milk was either skimmed or watered. It appears that lye-water, prepared from wood ashes, is frequently employed as an adulterant in place of water, the idea being that the specific gravity of the milk is not thereby affected. The sample of cheese contained starch and the sweets an excessive quantity of eosin as colouring matter. The remaining samples, consisting of tinned foods, were returned as "unfit for human food." The sample of condensed milk had developed gas and the contents spurted out on opening; the milk was brown in colour and more viscous than sound condensed milk. The tins of sardines and herrings were all blown and frequently the tinned surface was badly corroded and stained. There is no doubt that considerable stocks of unsound tinned goods exist in the towns and villages and so long as it remains in a shop it constitutes a public menace.

The analytical results of milk analysis complete the data on the Food Survey of Cyprus commenced in July, 1930. When these figures are combined

the general adulteration rate is seen to be 9.4%.

		Total	Adulter ated		
1930 1931	Food Survey Milk	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$egin{array}{cccc} & & \ & 51 \ & \ddots & 14 \end{array}$		
	Total	693	$\frac{-}{65}$		

Hence a figure of not much less than 10% can be regarded as the best

approximation to the actual adulteration prevailing in Cyprus.

During the year under review the duty of taking official samples under the Food and Drugs Law passed from the Police to the Sanitary Inspectors of the Department of Health. At the School for Sanitary Inspectors, held in Nicosia at the beginning of the year, special instruction was given in the most effective measures for the sampling of food and drugs. Allowing for the fact that the Inspectors had no previous experience of the work and that much still remains to be done, the new system can be regarded as having worked satisfactorily and it has been possible to exercise much greater control over the work than hitherto. But it must be admitted that the Inspectors encountered many difficulties, seen and unforeseen, during their first year of duty. In order to discover how far these difficulties were real, the Government Analyst with the Chief Sanitary Inspector made careful investigation of the conditions actually obtaining in Nicosia, Morphou, Larnaca, Lefkara and Kyrenia. It was found that they could be regarded as arising from two main sources, viz:—the determination to enforce the provisions of the Law in regard to food supplies, and secondly, the vagueness of the present Law when cases of adulteration come before the Courts.

Arising out of these circumstances many shop-keepers, presumably on legal advice, have adopted the sharp practice of labelling any or every food-stuff as "adulterated," whether or not the commodity was genuine, in the belief that by so doing the vendor rendered himself immune from Court action. It is difficult to discover sanction in the Law for practices of this nature, although, from certain decisions given in the Courts, it would appear that they are allowable. If indeed this be so, it is not surprising to find the whole object of the Law being systematically evaded especially when the Inspectors are active in the discharge of their duties.

It is possible that a better state of affairs might be brought about in several ways. First, by giving Sanitary Inspectors charge over cases of adulteration in the Courts in the same was as Forest Officers take care of Forest cases in Court. These officers who, as already stated, have had the benefit of special training, are probably in the best position to state the case for the prosecution. Secondly, definite regulations controlling the activities of all food industries

and trades should be drawn up and brought into force. The condition of factories and shops generally might thereby be greatly improved in the interests of public health and to the benefit of the community generally. One example perhaps will suffice in illustration. One custom of Cypriot shop-keepers is to keep supplies of human and animal food-stuffs, such as sugar, flour, rice barley, etc., in sacks on the floor. Not only is this practice hygienically bad but there can be no doubt that it constitutes a potent factor in encouraging the multiplication of the hordes of rats which yearly take a sad toll of the agricultural produce of the Island. Thirdly, the time would seem to have arrived when a revision of the present Food and Drugs Law might be undertaken with knowledge of local conditions and in the light of our recent experience.

In Table V. are summarized data showing the number of samples analyzed during the last decade and the percentage adulteration found.

TABLE V.—Adulteration During the Last Decade.

	Half-Year		No.	Adulterated	Per cent Adulterated
Ended	30th Sept., 1922		288	33	11.4
,,	31st Dec., 1922		287	32	11.1
,,	30th June, 1923		263	5	1.9
,,	31st Dec., 1923	• •	374	8	2.1
,,	30th June, 1924		344	7	2.0
,,	31st Dec., 1924	• •	288	3	1.0
,,	30th June, 1925	• •	263	2	0.7
,,	31st Dec., 1925	• •	328	2	0.6
° ,,	30th June, 1926	• •	189	4	2.1
,,	31st Dec., 1926		334	5	1.5
,,	30th June, 1927		190	6	3.2
,,	31st Dec., 1927		206	22	10.6
,,	30th June, 1928		318	21	6.6
,,	31st Dec., 1928		538	54	10.0
"	30th June, 1929		250	24	9.6
"	31st Dec., 1929		219	25	11.4
	30th June, 1930		90	3	3.3
"	31st Dec., 1930		610	51	8.3
"	30th June, 1931		225	36	16.0
"	31st Dec., 1931		553	52	9.4
"	0100 2000, 1001				

SECTION 2.—CRIMINAL.

Altogether some 449 exhibits were examined in connection with 134 criminal cases which are classified in Table VI.:—

TABLE VI.—Criminal Exhibits.

Exhibits in	murder and stabb	oing cas	ses	• •		• •	228
,, ,,	rape and sodomy poisoning cases an	cases	ng gọi		··	thor-	87
" "	ized persons	u poiso		••	··	••	36
,, ,,	robbery cases	• •	• •	• •	• •	• •	$\frac{4}{33}$
,, ,,	suicide cases dangerous drugs	• •	• •	• •	• •	• •	1
,, ,,	bestiality	• •		• •	• •	• •	1
,, ,,	counterfeit coins	• •	• •	• •	• •	• •	<u>59</u>
	Total	• •		• •			449

These data show a satisfactory decline both in cases and exhibits over the corresponding figures for 1930. Nevertheless the year was a bad one for violent crime which cannot be explained by the disturbances of last October. As in previous years the great majority of cases arose in connection with offences against the person but there were notable decreases in exhibits arising in cases of poisoning, abortion and dangerous drugs. There was an increase in suicide cases, one of which was caused by carbolic acid poisoning. No less than 10 murder cases were investigated, a number which does not represent the total capital crimes occurring during the year. But in spite of these grim facts the Cypriot criminal is more usually a simple ignorant person rather than a monster of iniquity. Usually the motives which lead a man to murder in Cyprus are trivial in themselves and are associated either with women, water or land.

The number of coins examined was again considerable, those found to be counterfeit consisting of three types. The workmanship displayed a high degree of skill in many cases with the exception of the milling which was nearly always irregular. The data are summarized in Table VII.:—

TABLE VII.—Composition of Coins.

Genuine			27
Silver and Copper	• •		25
Silver and Silica	• •		1
Lead and tin	• •	• •	6
Total	• •	• •	59

Expert evidence was given altogether on 32 occasions on the findings of certain of these criminal cases in the magisterial, coroner's, district and assize courts of the Island.

It is to be regretted that no alteration in the present Police system of sending in exhibits to the Laboratory for examination has yet been affected. Endeavour has constantly been made to encourage the Police to make intelligent use of the Laboratory facilities, but so far it must be confessed, with little success.

SECTION 3.—WATER SURVEY OF CYPRUS.

The chief interest of this section is to record the first results of the comprehensive Water Survey of Cyprus foreshadowed in last year's Report and actually commened in July, 1931. The survey was preceded by careful investigation as to choice of sources, dates and frequency of sampling, transport, and extra laboratory facilities. The waters chosen for the survey, which is to continue over one year, were drawn from both mountain ranges, town and village, sea-coast and plain, so as to be as representative as possible of the water sources of the Island. To satisfy these desiderata it was found necessary to analyse at least 33 samples each month. The Bacteriologist kindly consented to be responsible for the bacteriological examinations. The samples were for the most part collected by the Sanitary Inspectors and it is satisfactory to be able to report a great improvement in the taking of water samples generally. The chemical data obtained so far comprise something like 5,000 estimations. It was intended to condense these results in a table but unfortunately limitations of space did not allow of this being done. results indicate already that there are in Cyprus drinking waters which are excellent, many which are indifferent, and others which are thoroughly bad. From the completed data it is hoped to obtain the necessary information for drafting official water standards for Cyprus as well as indications as to the directions in which additional supplies of potable water may be reasonably sought for. On completion of the survey in 1932 the complete data, physical, chemical, bacteriological, geological, etc., will be published as a scientific paper.

Some 17 other water samples were analysed from different villages in the six districts, eight of which were found unfit for drinking purposes.

e/

SECTION 4.—CUSTOMS AND EXCISE.

Under this section 22 samples, consisting of a variety of food-stuffs and raw materials, were examined. The difficulties which became acute in 1930, in connection with the differentiation of petroleum samples, have been satisfactorily cleared up and the alternative suggestion made by the Analyst has now been passed into Law, *i.e.*, customs duty is remitted altogether on petroleum products other than kerosine and benzine.

SECTION 5.—ANIMAL VISCERA:

Twenty viscera, most of which originated from Paphos District, were taken from the different farm animals of Cyprus. On analysis five were found to contain white arsenic. Not for some years has there been as many cases of poisoning of animals. Arsenic has been used in the past for locust destruction and it appears that a certain amount is still in the hands of villagers and thus easily available when any poisoning is to be done. In cases where poison is not found, death is often due to Anthrax.

SECTION 6.—SCIENTIFIC EDUCATION.

The Government course in chemistry commenced in February and extended over four months, and altogether about 150 lectures and demonstrations were given. The revised syllabus of 1930 was followed and lectures were given once or twice every day. A test paper was set at the end of each month and an oral examination was included in the finals. Nineteen students attended the course of whom twelve passed the final examination and were awarded the Government Certificate.

Through the generosity of Dr. S. G. Papadopoullos, Consulting Surgeon to the Nicosia General Hospital, a book prize is now awarded annually to the best student of the year. The Papadopoullos Prize, which was keenly contested,

was awarded to Mr. C. Eleftheriades for 1931.

The year has been an onerous one for the Laboratory both for lectures and examinations. A second course of 50 lectures was delivered from January to March to the new School for Sanitary Inspectors initiated by the Director of Health. A grounding was given in elementary physics and chemistry and the course included subjects of special sanitary importance such as air and water, food and water sampling, disinfection, and meteorology. Test papers were set periodically, as well as the chemical section of the papers in the final examinations of the Royal Sanitary Institute, London.

Two public lectures were delivered during the year, one on "The Salt Industry of Larnaca," the other on "The Nutrition of the School Child."

The Government Analyst also acted as examiner on the Board of Examiners in Pharmacy in the practical and written work of the examinations for the Government Certificate in Pharmacy. The Analyst also acted as examiner in scientific subjects in the examinations held in July for the award of three Government Scholarships tenable at the English Universities.

SECTION 7.—OTHER DUTIES.

The Government Analyst acted as President of the following Boards of Survey:—

(a) Agricultural Stores.(b) Veterinary Stores.

(c) Cash, Forest Department.

The amount of official correspondence and advisory work shows constant increase.

The following official reports were prepared and submitted to Government:—

(a) Annual Report of the Government Analyst for 1930.

- (b) Food and Drugs Report for the half-year ended 31st December, 1930. (c) Food and Drugs Report for the half-year ended 30th June, 1931.
- (d) Report on the Purification of Larnaca Salt.
 (e) Report on the Utilization of the Carob Bean.
 (f) Note on the Colouring Matters in Cyprus Wines.

A close touch has been established and maintained with the Agricultural Department, for which two of the above reports were written.

SECTION 8.—MISCELLANEOUS.

A number of miscellaneous investigations of interest were carried out for different authorities. Two investigations of public health interest were undertaken on behalf of the Director of Health. A sample of disinfectant was examined and reported on, and recommended for purposes of rough disinfection using soft water for making up the solution. In the second case, the effluent waters of a Larnaca soap factory were examined and the recommendation made that these effluents might be passed into the town drainage system and so disposed of in the sea, a solution which has since been adopted.

A number of antiquities, such as statues, cements, stones, bronzes, coins, etc., were examined on behalf of the Nicosia Museum and the Swedish Archæo-

logical Expedition.

Several waters from the Kalavassos workings were analysed for their iron content and acidity. An investigation of Kyrenia limestone was also carried out for Italian interests with a view to exploring the possibilities of Cyprus as a centre for the manufacture of cement, an industry for which the Island possesses the necessary raw material and would thus appear to be well adapted.

SECTION 9.—REVENUE AND EXPENDITURE.

Additions to revenue were made from the following sources:—

Revenue.

		1000	roue.					
						£	s.	cp.
Governmen	t Analyst's	Fees	• •			60	10	$\dot{3}$
Lecture Fee	es					19	0	0
Fines inflic	ted under	the Foo	d and l	Drugs I	Law,			
1926	• • • •	• •	• •			41	10	0
	Total	• •	• •	• •		121	0	3
		Expe	nditure.	•				
Chemicál ar	nd Apparat	us		• •		227	0	8
Lighting an	d Heating,	etc.		• •		11	9	4
Cleaner	• • • •	• •	• •	• •		2	15	0
	Total	• •				241	5	3

SECTION 10.—VALUE OF WORK PERFORMED.

According to the scale of fees, as laid down by Government, the routine work of the year performed on behalf of the different Departments has the values shown in Table VIII.

TABLE VIII.—Value of Work Performed.

Category				Amount				
						£	s.	cp.
Food and Drugs			• •			813	18	Õ
Criminal Cases a	nd Evi	idence	• •			476	14	0
Counterfeit Coin	.s	• •	• •	• •	• •	123	18	0
Water			• •	• •		275	2	0
Customs and Ex	cise		• •	• •		23	2	0
Miscellaneous			• •	• •		134	6	0
Private Work				• •		60	10	3
Veterinary	• •	• •	• •	• •		11	11	0
Biochemical			• •			7	7	0
Lecture Fees	• •		• •			19	0	0
					-			
To	tal				• • •	1,945	8	3

These figures take no account of research and advisory work carried out

during the year.

It is a pleasant duty to record my appreciation of the efficiency of the small staff throughout a busy and difficult year and to my assistant, Mr. L. C. Haralambides, acknowledgment is again specially due.

PART II.—RESEARCH.

Given additional staff this is a branch of activity capable of great development, the benefit of which it is difficult to estimate. Several investigations noted below were completed during the year.

CYPRUS ORANGES.

Oranges are one of the most promising products of Cyprus for the cultivation of which the Island is naturally well suited. Cyprus oranges are now being exported to Europe in quantity but no investigation as to their nutritive value has been attempted. It appeared worth while, therefore, to obtain scientific data as to their food value by chemical and biological methods. Accordingly, an investigation was commenced in conjunction with Mr. C. Myrianthis, M.A., B.Sc.

In Cyprus, oranges are cultivated in three principal localities:—in the East, on the sandy soils of the coastal strip at Famagusta; in the West, on the loams of Lefka and Morphou. All three localities are well supplied with water. The annual production is estimated to be approximately as follows:—

20 millions. Famagusta 10 millions. Lefka 5 millions. • • Morphou • • • •

Complete chemical analyses were made on representative samples of oranges from all three localities. The content of antiscorbutic vitamin was next determined by a series of feeding experiments on guinea pigs using the curative technique. Owing to lack of facilities, it was not possible to apply Höjer's admirable method in a parallel experiment. The guinea-pigs were bred in Cyprus from original Athens stock and suitable cages were constructed locally for the experiments. By feeding graduated doses of filtered orange juice to different groups it was concluded that a dose of 1.5cc. per head per day was ample to protect and cure the guinea-pigs from scurvy. Positive and negative controls were made at the same time and the experiment continued over a period of three months. From these results it is seen that Cyprus oranges compare favourably with those from better known countries.

LARNACA SALT.

The purified salt, prepared in 1930, was tested out on the market at the price of 6cp. per oke, or about 2d. per lb. The salt was tried domestically in place of imported table salt, in cheese making on a large scale, and in the Hospital and Dispensary, Nicosia, generally for clinical work. In all cases the purified salt gave satisfactory results when used in place of imported pure salt. The chief difficulty was the price which was generally thought to be too high. (Crude Larnaca salt was at that time selling at 4cp. per oke). Thus the position was that, while the purified product had given satisfactory results wherever it had been employed, the high price was a real difficulty in the way of its economic development.

In order to overcome this it was suggested, in a report to Government, that use should be made of the heating effect of the sun's rays in the evaporation of the filtered solutions and employing a battery of shallow salterns exposed to wind and sun. A process along these lines has been successfully operated for a number of years at Athlith, Palestine, where an excellent salt has been produced in sufficient quantity to supply practically the needs of the whole country. It was recommended that, with suitable modification to suit local conditions, there is no reason why this solar system should not be equally successful if applied at Larnaca Salt Lake. There can be no doubt that the development of the salt industry in Cyprus offers considerable possibilities.

QUININE POISONING.

A fatal case of quinine poisoning at Amiandos was investigated. Although widely used cases of poisoning by quinine, by accident or design, appear to be fortunately rare. For example, authorities such as Taylor and Glaister have no recorded cases. In the present case, a girl aged five, swallowed 25 five grain tablets of sugar-coated quinine in the belief that they were sweets. Vomiting and purging soon came on, followed by cyanosis and collapse, death terminating the scene three hours after ingestion. Post-mortem examination was made by Dr. Christodoulides and on analysis of the viscera, quinine was found in the stomach and traces in the liver. A paper, embodying the results of this investigation, was published in the Lancet of November 21, 1931.

PIGMENTS OF THE POLLEN OF CERTAIN LILIES.

It has been found that the pollen and anthers of certain lilies yield a pigment, on suitable extraction, which can act as a sensitive indicator with acid and alkali. The colour in dilute acids is a pink-red and in dilute alkalis a bright green, the end-point being remarkably sharp. The indicator is not destroyed since the colour is at once restored by adding acid or alkali after neutralization. In titration work these indicators were found to give the same results as methyl red or litmus. Further investigation showed that

this appeared to be a property of all the family.

It was also shown that the best method of extraction is one of simple maceration of the anthers at room temperature. When extraction of the indicator pigment is attempted in 90% alcohol, as recommended by previous observers, a number of other pigments are extracted at the same time thus giving a heterogenous solution. The confusing pigments have been investigated and found to consist of a considerable amount of carotin, a little xanthophyll and another unknown pigment. The indicator pigment was also found to be present in the flowers, from which it was isolated and proved to be an anthocyanin. The investigation is being continued.

Soil Survey of Cyprus.

In April, the Colony was visited by Dr. A. Reifenberg of the Hebrew University, Jerusalem, who came to carry out a scientific survey of the soils, and particularly the red soils, of Cyprus. In conjunction with the Agricultural Analyst water, soil, and agricultural data were supplied to Dr. Reifenberg as well as local information relevant to his survey. Some 75 representative analyses were given for the purposes of this investigation. Many soil samples were taken by Dr. Reifenberg and the material is being worked up in Jerusalem for publication in 1932.

PART III.—REORGANIZATION OF THE GOVERNMENT LABORATORY.

The condition of the Government Laboratory in 1929 was one of chaos and disorganization. Apart from the fact that the building is structurally unsuited for a laboratory, the furnishing and equipment were quite out of touch with the requirements of a modern scientific laboratory. It was realized, therefore, at the outset that reconstruction and reorganization of a drastic nature were essential before the Government Laboratory could be lifted from its sad condition to a position of efficiency and order. The year 1931 saw the completion of this task and the new laboratories working at full capacity. A short account of the chief improvements effected is recorded in the sequel.

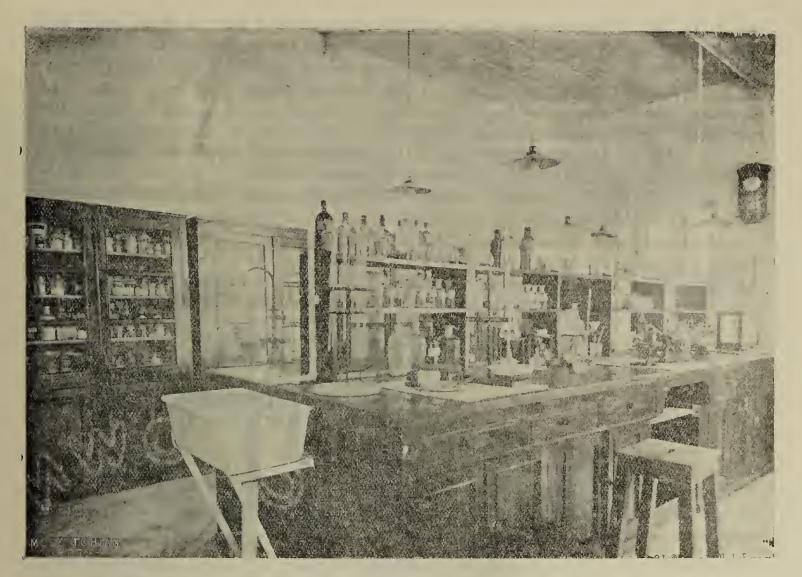
Throughout the work the guiding principle has been simplicity of arrangement with a maximum of service within the narrow margin of available means. Three new laboratories have been fitted up, viz:—for general analytical work, forensic investigations, and for water analysis. In addition, an office, animal room, preparation rooms and store-room have been provided. The principal laboratories and offices are situated on the first floor and the water room,

animal room and preparation rooms on the ground floor.

To provide accommodation for the office of the Government Analyst a wooden partition with door was made across the east end of the Toxicological Laboratory, the upper 2 feet of the partition being of glass. A stone fireplace was built in this office and another of similar design in the General Laboratory. A new desk and a large enclosed bookcase and other necessary furniture were provided.

TOXICOLOGICAL LABORATORY.

To improve the lighting of the Toxicological Laboratory, which is next to the office, a window was opened between the two existing windows in the north wall (see plan). New benches of seasoned Norwegian pine were fitted into the wall and supported on iron brackets. The benching was $2\frac{1}{2}$ feet in width and $1\frac{1}{2}$ inches in thickness and was stained black with acid aniline treatment. A special table was made for microscopic work and placed in a good light from the new window. The existing sink was removed and used as a wash basin in the Government Analyst's office. In its place an acid-proof stoneware sink was fitted up with draining board and drying rack. At a convenient height above the benches shelves were placed to carry reagent bottles.



General Laboratory.

GENERAL LABORATORY.

The lighting of this Laboratory has been improved as in the case of the Toxicological Laboratory by opening a second window in the south wall. The main feature of this laboratory is the "island" bench which replaces the obsolete side benches, and occupies the centre of the available space as shown in the plan. The island bench was of dimensions $14' \times 5' \times 3'$ and was constructed locally under supervision. Norwegian pine was used for the bench tops which were stained acid-proof black as before. Two tiers of reagent shelves were placed over the bench top and two deep stoneware sinks occupied the ends of the bench. Each sink was provided with a set of three compositive taps with a swan neck. On each side of the bench, in the centre, an open space allowed for a refuse receptacle, with a drying cupboard above.

A fume cupboard, lined with acid-proof white tiles, was constructed in the south-west corner. The outlet pipe of heavy sheet zinc was carried through the wall above the eaves of the roof in order to promote good draught for the removal of fumes. The south wall now carries an instrument bench, stained black, with a commodious glass case to house the balances. In the absence of a separate balance room this appeared to be the best substitute. Along the north wall, five special cupboards were arranged for chemicals and special reagents, a necessary precaution against the dust of Cyprus. The old system of supplying water to the laboratories by hand pump has been abandoned and a new supply, which is pumped up mechanically, has been installed. The new system has given satisfactory results. A proper drainage system has also been installed with outfall pipes running into an underground cement channel which in turn connects with a newly constructed cess pit. The electric lighting throughout has been improved in conformity with the reorganization.

WATER LABORATORY.

Benches, 3 feet in height, have been fitted into the wall on three sides of this room with the necessary sinks and plumbing arrangements. In one corner a fume cupboard of dimensions $3' \times 6' \times 2'$, of the same type as before mentioned, has been constructed; and the necessary shelving and cupboard have been provided. The addition of an electric oven, water bath and hotplate have proved a facility in the work of water analysis.

An animal room was made by erecting a partition in the same manner as in the Toxicological Laboratory as shown in the plan. The rat colony was housed in the smaller room and all cages, tripods, trays and feeding pots were

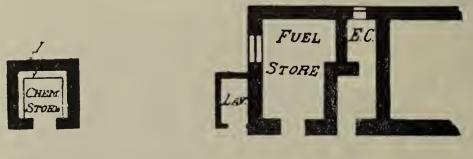
made locally. The larger room, which was supplied with a sink, etc., was used for cleaning cages and housing guinea pigs for experiment. The room adjacent, previously used for lectures, was found unsuitable for this purpose and converted into a store room. The outside stores has been cleared of rubbish and is now used for the storage of corrosive acids and inflammable solvents. Precautions against fire have been taken by the installation of a new type of English hand fire extinguisher. Such appliances are easily operated and readily refilled with carbon tetrachloride.

In the hall an oak screen, indicated in the plan, has been erected and this

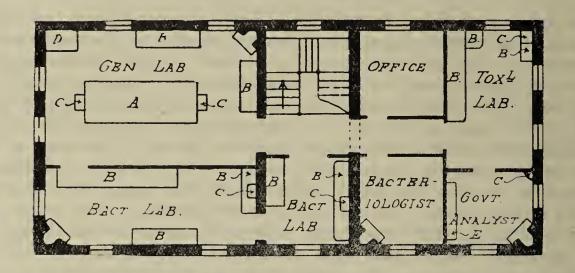
has increased the privacy of the building and improved its appearance.

In conclusion, it is a pleasant duty to acknowledge indebtedness to the Red Cross Fund for the grant of about £100, which sum formed the basis for our reorganization scheme. Also from the Public Works Department we have had the advantage of much material advice and assistance at all times.

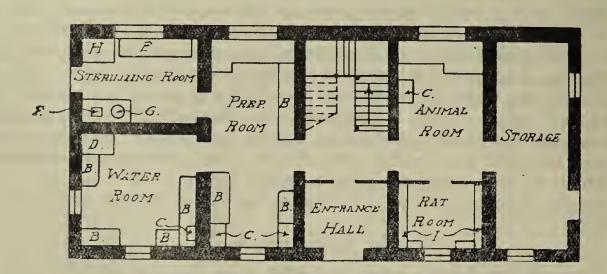
Government Laboratory—Nicosia. Scale:— 16 Feet=1 Inch



-<u>OUTBUILDINGS</u>-



-FIRST FLOOR PLAN-



- GROUND FLOOR PLAN-

REFERENCE

- a) Island bench.
- b) Benches.
- c) Sinks.
- d) Fume cupboard.
- e) Library case.

- f) Sterilizer.
- g) Autoclave.
- h) Animal cage
- i) Shelves.

APPENDIX E.

REPORT OF THE SOCIAL WORKER FOR THE YEAR 1931.

By Miss P. M. Lyall, Welfare Officer.

This Report surveys the Social Work carried on in the Colony during the past year. Some of it has followed the well-trodden paths of previous years, but there have also been some new ventures, which may be considered as the direct outcome of schemes discussed at the meetings of the Social Hygiene Council.

EDUCATION AND PROPAGANDA.

In February, during the Bairam holidays, a week's course of lectures was held in Nicosia for Turkish teachers and the higher classes of the Lycée and the Victoria School and members of the Turkish community generally. The lecturers and their subjects were as follows:— Dr. Strathairn, Sanitation; Dr. Nouri Bey, Common Ailments of School Children; Dr. Gosden, Bacteriology; Dr. Hopton, Tuberculosis and Venereal Disease; Dr. Blackaby, Malaria; Dr. Willimott, Food and Health; Dr. H. Symeonides, Leprosy; Dr. Tahsin, Eye Diseases; Mr. Roe, Care of Animals in Relation to Public Health; Mr. Weir, Citizenship. The audience numbered from 500 to 600 daily.

A similar series of lectures was given at Limassol during the latter part of June for Greek teachers, boys and girls in the higher classes of the Secondary Schools and others. Dr. Coureas gave a lecture on the Health of School Children, and Dr. Tornaritis on Eye Diseases; the other lecturers were the same as before. The lectures were held in the evenings, some of them in the open-air cinema grounds, and they were well attended.

INFANT WELFARE CENTRES.

1. Nicosia.

It was mentioned in the last Report that the Committee of the Infant Welfare Centre was arranging for a whole time worker to take charge of this Centre. The new Superintendent, Miss Pantazi, started work on 15th January, and the Centre is now open every week-day. The attendances have naturally greatly increased when compared with those of the previous year, viz., attendances 1,822 against 645, and visits 1,722 compared with 542 in the previous year.

2. Larnaca.

It is reported that at Larnaca 495 children made 3,518 attendances, and 2,356 visits were paid to their homes. At this Centre, milk in tins and soap are given to cases thought to be necessitous. A large amount of this milk and soap was given to the Centre.

DAY NURSERY AT LIMASSOL.

This institution which was organized by the Society of Greek Ladies, was open for eleven months during the year. There was a daily average of 35 children in attendance. Only those children are accepted whose mothers have to leave their homes for work; they are given two meals daily and also given instruction on kindergarten lines. The institution has been open for about three years and there seems always to be a great demand on its accommodation.

HOSTEL FOR GIRLS.

The number of girls admitted to the Hostel was 38. This is fewer than last year. It is difficult to discover the reason why this is so; but there seems to be less movement among servant girls; perhaps the disturbances in the Autumn may have caused them to stay in their villages. The number of girls dealt with under the Law for the Protection of Female Domestic Servants in the district towns is 55 compared with over 100 in 1930. This seems to point to a similar condition of affairs in the other towns also.

Of the new ventures, three may be described as "Holiday Camps" for delicate children.

In Nicosia, the scheme was organized by Miss Persephoni Papadopoulou and the other members of "Pneumatiki Adelphotis." The school buildings were lent free of charge by the Kyrenia Education Board, and here 71 children from the Greek-Christian elementary schools in Nicosia stayed for the month of August, and had a thoroughly happy time with sea-bathing and boating, organized games, etc. Examination of the children on arrival and shortly before their departure showed how much they had benefited physically by the change.

At Larnaca, the camp was organized by the Mayor, though on a private and voluntary basis. The children gathered in the Municipal Garden at 6 a.m. They had breakfast, dinner and tea. The day began with drill and games, followed by sea-bathing. After dinner, a rest, more drill and games and handwork, and they were sent back to their homes at 6.30 p.m. 28 boys and 30 girls were thus entertained for about a month, having benefited greatly by their stay.

At Limassol, the idea of a Holiday Camp was started by the Junior Red Cross League at the Private School of Mrs. Lanitis. The pupils raised funds by means of dances and entertainments, and were also helped by the Mayor of Limassol and the Society of Greek Ladies; the school premises at Platres were lent free of charge by the School Committee of the village. By this means, 22 children from Limassol were sent to Platres and enjoyed fresh mountain air for 35 days. It is hoped, this year, to send more children for a longer period. In reading the reports of these organizations, one is struck with the amount of personal service which was freely given and which contributed so greatly to the success of these ventures.

This was carried out as an experiment by the Alumni Association of the American Academy at Larnaca for three evenings a week during the month of August. The meeting place of the Centre was the tennis ground of the Academy. The lads from 12 to 20 years old, who attended, were mostly occupied in varieties of manual employment. The average attendance was 66, but the numbers increased each evening and on the last evening there were 100. The Alumni Association felt that such a project meets a real need, while at the same time it was a valuable experience for themselves also. There are many difficulties in such work, and the members of the American Academy showed courage in tackling it. It is to be hoped that others will be inspired to follow their example and to attempt, if possible, to have permanent Recreation Centres in the large towns.

ST. BARNABAS' SCHOOL FOR BLIND CHILDREN.

This is an institution which is quite independent of the Social Hygiene Council, it is however, one of the most important pieces of social work in the Island, and no survey would be complete without a reference to it. At the beginning of the year, there were 6 pupils, and at the end of December there were 12, including 11 boys and one girl. There is still room for one or two more; but these could only be admitted if sufficient financial support were forthcoming. The children are taught reading and writing in Greek and English Braille, arithmetic, gymnastics, violin playing and handicrafts, such as mat making, chair caning, basket work, knitting, etc. There is room for endless further development, but this development can only proceed according to the financial resources that are or may be available.

APPENDIX F.

REPORT ON THE MENTAL HOSPITAL FOR THE YEAR 1931.

By Dr. S. Lyssandrides, Medical Superintendent.

I have the honour to submit my first Annual Report on the Cyprus Mental Hospital, Nicosia, for the year 1931.

This Hospital has recently improved so considerably that it can justly claim the name of Mental Hospital to which it was changed some time ago from that of Lunatic Asylum.

VISITORS.

The Board of Visitors consisting of Miss P. M. Lyall, Mr. D. N. Demetriou, O.B.E., and M. Munir Bey O.B.E., met on three occasions during the year and made many useful recommendations which have been carried out. During the year several visits were made by Official Visitors as well as by some friends who gave useful presents to the patients.

BUILDINGS.

During the last year, a combined Dining and Recreation Room for the females was built, spacious, sunny and hygienic, with a veranda all round. Thus, these patients have now a suitable room in which to pass their time when the weather is not suitable for them to be in the open-air, and to take their meals conveniently and not as previously in their dormitories or in the grounds.

A good wash-house has been built to replace the old one which was quite unsuitable for the purpose.

A Visitors' Room, an Office and Consultation Room have also been built equipped with the proper furniture and instruments.

In addition to the existing Turkish bath, which is used for the cleanliness of the patients, two full-size baths and a shower equipment have been installed for hydrotherapy.

Other essential buildings required for the Mental Hospital are a small Hospital consisting of one female and one male ward for inmates physically ill, a Recreation Room for the Male Division and a special Block for private and contributing patients.

The repairs effected regularly every year are not satisfactory. Owing to the original poor construction of the buildings and to the destructive habits of the mental patients, I recommend the appointment of a mason-carpenter attendant who would be constantly on the spot to repair and upkeep the buildings and furniture, and this without increasing the present expenditure for repairs.

GROUNDS.

Thanks to the interest of the Forest and Agricultural Departments various trees and a flower garden have been planted out but without great success, owing to the rocky nature of the grounds and the cold weather.

STAFF.

The Head Warder, Mr. Antony Stassinos, has been of valuable assistance in carrying on the work of the Institution, and the attendants have rendered loyal and satisfactory service; they have treated the patients kindly and sympathetically in accordance with my instructions.

During last year, a barber-attendant was appointed, who has also been put in charge of the baths.

The number of attendants is insufficient in relation to the increased number of the patients (14 attendants, of whom 8 are on duty at a time, to about 180 patients), and I am of opinion that four male and two female attendants should be added to the staff.

STATISTICS.

On 31st December, 1931, there were 171 patients (119 Males, 52 Females), whilst on 31st December, 1930, there were 168 (111 Males, 57 Females), showing an increase of 3 in total population. The total number treated was 252 (175 Males, 77 Females).

During the year, 84 patients were admitted; of these 64 were males and 20 females.

Discharges.—Total number, 71, divided as follows:—

Discharged recovered: 31 males and 16 females, a total of 47. Discharged relieved: 12 males and 4 females, a total of 16. Discharged not improved: 5 males and 3 females, a total of 8. Escaped.—One male, who was recaptured after three days. Deaths.—Total number of deaths was 10 (8 Males, 2 Females).

The principal causes of death were general paralysis of the insane and status epilepticus.

Patients relieved or even not improved have been discharged as these patients were quiet, harmless and amenable and could be useful for some work. But such patients get again into the hands of the Police unfortunately in many cases either for slight cause or on account of some excitement caused by being mocked by street boys. It is the policy of the Mental Hospital to keep no patients under control if there is any reason to think that they can be looked after at home, provided, of course, they are quiet and there is no reason to believe that they may be of any danger to themselves or to the community.

Such a policy helps to keep down the total population of the Hospital which otherwise would result to overcrowding and it is also just to the patient.

It is regrettable that the relatives of many of the patients show little or no interest in their patients and are not favourably disposed towards the idea of their return home; also other relatives are only too ready to try and get their patients returned to the Mental Hospital once discharged.

I beg to suggest that certifying Medical Officers should be asked to give greater attention in the examination of the patient himself as "the facts indicating insanity observed at the time of examination" are the most important part of the certificate and to ascertain the correctness of the "facts communicated by others."

Whilst on this point, I beg to lay stress on the importance of the certifying Medical Officers supplying at the same time information regarding heredity, personal history, apparent cause and history of the present illness, which is of help in diagnosis.

TREATMENT.

The patients receive sufficient full diet except those for whom there is a reason to be under light diet and milk. Once a week they are washed in the Turkish bath, and those of the patients, who require it for their treatment, have immersion or shower baths.

Tonic medicines and opotherapeutics are in regular use.

For the epileptics we make use of Luminal in doses of 30 centigrammes a day for five days a week and far better results are attained than with Bromides.

General Paralysis of the Insane cases were treated with Tryparsamide and Bisoxyl alternatively and as pyretotherapy intravenous injections of Neosaprovitan in lieu of Malaria inoculation, which could not be practised. Unfortunately, we have not satisfactory results in the treatment of this most serious cerebral disease.

During the last year, we have used Sulfosin Leo mostly for the treatment of Dementia Preacox, as well as for General Paralysis of the Insane and other Psychoses. Although the supply of this medicine was limited and consequently few patients benefited of this treatment, the results obtained have been very encouraging. For the current year, an order for a much larger supply has been placed.

OCCUPATION OF PATIENTS.

A number of patients are employed in various occupations. Any patient fit for work is employed, if skilled at his particular occupation, and if unskilled on unskilled work. Most of them are used to help the attendants in their work, others do light work as masons or carpenters. Some do sewing, repairing of mattresses, and others look after the gardens and grounds.

Female patients work in the Laundry and kitchen and do all the mending of the clothing. The amount of work done in the way of repairing garments, etc., is very great, especially by the patient No. 15 F. who is of great value for the Hospital. A small number of female patients occupy themselves in embroidery and needlework. Some of them do house work assisting the attendants.

AMUSEMENT OF PATIENTS.

A good supply of books, magazines and papers have been gratuitously provided. The Visitors' Room is used as Reading Room by the patients when nor required for its main purpose.

A Gramophone of a good make with a big selection of records, all of which were given by friends, is provided and a guitar and some indoor games are available for the patients. Those allowed to smoke are provided with cigarettes. Special festival dinners were provided by the Hospital on Easter and Christmas and New Year's Day. The amount granted from the Hospital Christmas Fund was utilized for the purchase of additional clothing, such as pullovers, socks, stockings, boots, handkerchiefs, etc., which were distributed to the patients on Christmas Day, and sweetmeats, cakes, cigarettes, and the like were provided by friends of the Mental Hospital.

CHURCH SERVICES.

No religious services were held, but a priest visited the Hospital occasionally, especially for administering the Holy Communion. Some of the patients were allowed to attend the services at the nearby village church on the most important holidays, always accompanied by an attendant.

Before closing, I beg to state that much remains to be done for the betterment of the Mental Hospital to bring it in line with modern mental practice and it is hoped that the Government will agree to the various suggestions put forward for this purpose.

Table I.—Showing the Actual Admissions, Re-admissions, Discharges and Deaths during the Calendar Year ended 31st December, 1931.

Males Fem. Total Males Fem. Total In the Mental Hospital, 1st January, 1931 111 168 Cases admitted: 41 9 50 First Admissions ... 34 2311 Not first admissions Total cases admitted during the year 64 20 84 252 Total cases under care during the year 175 77 Cases discharged: 47 31 16 Recovered ... 16 12 4 Relieved . . 8 5 3 Not improved . . 8 10 Total discharged and died during the year 56 25 81 Remaining in the Mental Hospital, 31st 171 119 52

Table II.—Obituary Showing the Causes of Deaths during the Calendar Year, 1931, with the Form of Mental Disorder and Age at Deaths.

Register No.	$\frac{Age}{-}$	Sex	$Form\ of\ Mental\ Disorder$	$Date\ of\ Admission$	Cause of Death
				_	
76	43	M.	Epilepsy	18.5.1929	Status Epilepticus
132	45	M.	General Paralysis	22.7.1930	Epileptiform Attacks
58	36	F.	General Paralysis	5.9.1930	Exhaustion
155	38	M.	Cerebral Syphilis	15.11.1930	Apoplexy
172	48	М.	Intermittent Psych sis (Mania)	7.4.1931	Collapse
75	45	F.	Mental Deficiency	5.5.1931	Dysentery
175	40	M.	General Paralysis	12.5.1931	Epileptiform Attacks
178	30	M.	,, ,,	21.5.1931	Exhaustion
194	50	M.	,, ,,	4.7.1931	do.
215	45	M.	"	4.11.1931	Epileptiform Attacks

Table III.—Showing the Form of Mental Disorders in the Admissions, Recoveries and Deaths during the Year and Form of Mental Disorder of the Inmates on 31st December, 1931.

Form of Mental Disorder	A	dmissio	ns	Rec	coverie	es		Deaths	Re	maining TMT	· .	
Congenital or infantile	M .	r.	T.	М.	F.	Т.	М.	F.	Т.	М.	F.	Т.
Mental Deficiency												
(Idiocy, Imbecility,	٠											
Feeblemindedness) occi	ar-											
ring as early in life as									•			
it can be observed	6	2	8	5		5	_	1	1	17	4	21
Dementia Præcox												
(Hebephrenia, Katato-	- 0											
nia, Dem. Paranoids)	13	4	17		_			_	—	5 0	28	78
Paraphrenia, Paranoia	2		2	1		1		_		6	1	7
Manic-Depressive Psy-												
choses (Mania, Melan- cholia, Alternating)	10	9	19	13	11	24	1		1	7	7	14
Senile Dementia										7	2	9
Acute Confusional In-										·	~	· ·
sanity	2	3	5	. 2	4	6				1		1
Alcoholic Psychoses	6		6	6		6				1	_	1
Morphinomania	1		1	1		1						
General Paralysis of the	,	,										
Insane	10	_	10		_		6	1	7	6		6
Epileptic Insanity	8	1	9	1	1	2	1	_	1	15	7	22
Dementia, Secondary											_	
or Terminal								_		6	1	7
Bordelands	1	1	2								1	1
Paralysis Agitans, Encephalitis Lethargica	2		2	_						2	1	3
Feigned Insanity	3		3	2		2	_			1	_	1
			_						_		_	
Total	64	20	84	31	16	47	8	2	10	119	52	171

TABLE I.

Dr. G. C. Strathairn, Director of Health.

Dr. C. H. Cuff, Surgical Specialist.

Dr. R. E. Hopton, Specialist in Venereal Diseases. Dr. L. Fraser, District Medical Officer, Famagusta.

Dr. R. L. Cheverton, District Medical Officer, Limassol. Dr. H. Symeonides, Medical Officer, 1st Grade, Nicosia. Dr. P. M. Polydorides, Medical Officer, 1st Grade, Kyrenia.

Dr. G. M. Pietroni, Medical Officer, 1st Grade, Larnaca.

Dr. Th. Astreos, Medical Officer, 1st Grade, Paphos. Dr. C. Myrianthis, Medical Officer, 2nd Grade, Akhna.

Dr. M. Lazarides, *Medical Officer*, 2nd Grade, Myrtou. Dr. M. Kontarinis, *Medical Officer*, 2nd Grade, Pedoulas.

Dr. Ph. Jacovides, Medical Officer, 2nd Grade, Leonarisso.

Dr. E. Magnis, Medical Officer, 2nd Grade, Limassol. Dr. G. Atrides, Medical Officer, 2nd Grade, Lefkoniko.

Dr. Ch. Papaioannou, Medical Officer, 2nd Grade, Lythrodonta.

Dr. J. S. Makrides, Medical Officer, 2nd Grade, Polis.

Dr. S. Constantinides, Medical Officer, 2nd Grade, Morphou. Dr. C. Myrianthopoulos, Medical Officer, 2nd Grade, Klirou. Dr. P. A. Anastassiades, Medical Officer, 2nd Grade, Athienou.

Dr. Halil Fikri, Medical Officer, 2nd Grade, Lefka. Dr. A. Josephakis, Medical Officer, 2nd Grade, Trikomo. Dr. N. C. Fekkos, Medical Officer, 2nd Grade, Lefkara.

Dr. J. Christodoulides, Medical Officer, 2nd Grade, Kilani. Dr. A. Economides, Medical Officer, 2nd Grade, Anoyira.

Dr. N. Stylianou, Medical Officer, 2nd Grade, Pyrgos. Dr. Chr. Volos, Medical Officer, 2nd Grade, Kelokedhara. Dr. P. E. Demetriades, Medical Officer, 2nd Grade, Nicosia. Dr. C. Rodhosthenis, Medical Officer, 2nd Grade, Palæochorio.

Dr. M. Liassides, Medical Officer, 2nd Grade, Stroumbi. Dr. E. Paraskevaides, Medical Officer, 2nd Grade, Nicosia. Dr. S. N. Papadopoulos, Medical Officer, 2nd Grade, Lyso. Dr. Z. K. Zardis, Medical Officer, 2nd Grade, Agros.

Dr. Z. K. Zardis, Medical Officer, 2nd Grade, Agros. Dr. C. S. Markides, Medical Officer, 2nd Grade, Vatili. Dr. M. Pieris, Medical Officer, 2nd Grade, Kellaki. Dr. P. Koumas, Medical Officer, 2nd Grade, Limassol.

Dr. Hassan Tahsin Salih, Travelling Oculist.

Dr. Mehmed Ali, Travelling Oculist. Dr. Chr. Tornaritis, Travelling Oculist.

Miss A. Moxon, Matron, Nicosia General Hospital.

Miss A. Barclay, Matron, Limassol Government Hospital.

Miss W. Wilson, *Matron*, Leper Hospital. Miss C. A. Wyeth, *Matron*, Sanatorium.

Miss J. E. Crowe, Nursing Sister, Nicosia Government Hospital. Miss M. M. Murphy, Nursing Sister, Nicosia Government Hospital. Miss E. C. Davies, Nursing Sister, Nicosia Government Hospital. Miss H. E. Hall, Nursing Sister, Limassol Government Hospital. Miss M. McGrail, Nursing Sister, Limassol Government Hospital.

Dr. S. G. Willimott, Government Analyst. Dr. M. Gosden, Government Bacteriologist.

M. Aziz, Chief Sanitary Inspector. Miss P. M. Lyall, Welfare Officer.

Dr. S. Lyssandrides, Medical Superintendent, Mental Hospital.

Dr. Chr. Kalavros, Honorary Oculist, Nicosia Hospital. Dr. Chr. Tsiros, Honorary Oculist, Larnaca Hospital.

Dr. Chr. Makrides, *Honorary Oculist*, Limassol Hospital. Dr. N. Michaelides, *Assistant Medical Officer*, Venereal Clinics. Dr. M. J. Fterakis, *Assistant Medical Officer*, Venereal Clinics.

Dr. S. Pastides, Assistant Medical Officer, Venereal Clinics. Dr. C. Kronides, Assistant Medical Officer, Venereal Clinics.

Dr. C. Kromdes, Assistant Medical Officer, Venereal Clinics.
Dr. Hassan Atta Hikmet, Assistant Medical Officer, Venereal Clinics.

J. G. Marcellos, Honorary Dentist, Nicosia Hospital.
V. Diamantides, Honorary Dentist, Larnaca Hospital.
Y. P. Michaelides, Honorary Dentist, Limassol Hospital.

Dr. M. Coureas, Honorary Consulting Physician, Nicosia Gov. Hospital. Dr. S. G. Papadopoulos, Honorary Consulting Surgeon, Nicosia Govment Hospital.

Dr. A. Gavrielides, Honorary Consulting Surgeon, Limassol Gov. Hospital.

APPENDIX H.

TABLE II.

FINANCIAL.

DEPARTMENT OF HEALTH.

EXPENDITURE, 1931.

	TEMDII	OILE,	1001.			\mathfrak{L} s.	cm
Personal Emoluments					9	25,115 15	cp_{-4}
Other Charges:—	••	• •	• •	• •	• • -	0,110 10	-
Wages:—						1 1	
Central Hospital, Nicosia			• •			246 14	8
Sanatorium, Nicosia	• •		• •	••	• •	$\begin{array}{ccc} 210 & 14 \\ 121 & 6 \end{array}$	_
Limassol Hospital	• •	• •	• •	• •	• •	135 0	_
Mental Hospital		• •	• •	• •	• •	$\frac{100}{42} = 0$	
Leper Farm				• •	•••	338 16	_
Government Laboratories				• •	• •	47 10	_
Food, Clothing and Miscellaned		• •				1. 10	_
Central Hospital, Nicosia	• •	• •			• •	2,314 16	6
Sanatorium, Nicosia		• •	• •	• •	• •	1,462	
Limassol Hospital		• •		• •	•••	713 3	
Mental Hospital	• •	• •			•	1,883 5	
Leper Farm		• •		• •		2,448 17	
Drugs and Surgical Supplies		• •		• •		3,704 6	
Care of Healthy Children of Le		• •	• •	• •	• •	223 7	
Extra Assistance:—	Poro	••		• •	••	220	U
Medical						427 11	7
Nursing		• •		••	• •	$\frac{127}{329}$ 15	•
Prevention of Disease	• •	• •		• •	• •	5,619 11	
Disinfection	• •	• •			• •	153 15	
Midwifery	• •	• •	• •	• •	• •	739	
Venereal Clinics	• •			• •	• •	2,980 2	
Social Work		• •	• •	• •	• •	30 17	
Chemicals and Equipment of I			• •	• •	• •	331 4	_
The Food and Drugs Law, 192		OIIOS		•		15 12	
Expenses of Medical Assessors		• •	• •	• •	• •	10 12	, I
Fees to Analytical Staff for Le		• •		• •	• •	10 (0
Remuneration to Examiners in			• •	• •	• •	8 (
School for Sanitary Inspectors				• •		145	
Contributions to :—		••	•	••	•••	110	
Other Hospitals						1,272	0
Tropical Diseases Bureau		• •	• •	• •		200	
Colonial Advisory Medical a					•	15 13	
Health Education Bureau	• •	··				105	
Hospital Equipment	• •	• •	• •			271 14	
Commission on Sale of Drugs	•••			• •		55 3	
Books and Periodicals			0.	• •		59 17	_
Uniforms	1	• •	• •	• •	• •	171 18	
Travelling	£.			• •	• •	2,026 18	
Rent	• •	• •				112	_
Lighting and Heating	• •	• •	• •		• •	352 19	
Postage, Telegrams and Sundr		• •	• •	• •	• •	114	
Special Expenditure:—	100		•	• •	• •	111	. J.
TYPE TO A						444 16	3
Training of Health Departm				• •	•	80 (
Training of Transcription of the	JAZO OII	_ 010010					
Total						54,870	3 4
I. O COUR				•	• • •	01,010	T

Discusses Second Second			In	OUT-PA	OUT-PATIENTS			
I. Epidemic, Endemic, and Infectious Diseasures. 1. Enteric Group:— (a) Typhoid Fever	Diseases	ning Ital 1930	Yearly	Total	Total	ning Ital 1931		
Diseases		Remain in Hospi at end of		Deaths	Cases	Remair in Hospi at end of	Male	Female-
(a) Typhoid Fever — 27 6 27 2 20 25 (b) Paratyphoid A. — — — — — 2 4 (c) Paratyphoid B. —<								
(b) Paratyphoid A	1. Enteric Group:—	j						
(c) Paratyphoid B. — 3 — 3 —	(a) Typhoid Fever		27	6	27	2	20	25
(d) Type not defined - 1 - 1 - 1 9 2. Typhus -	(b) Paratyphoid A	_	-		_	-	2	4
2. Typhus	(c) Paratyphoid B	_	3		3		<u> </u>	_
3. Relapsing Fever	(d) Type not defined	_	1		1	—	1	9
4. Undulant Fever	2. T yphus	-		_	_	_		
5. Malaria:— (a) Tertian 4 311 3 315 2 7,835 7,194 (b) Quartan 1 78 — 79 1 435 409 (c) Aestivo-autumnal — 23 1 23 — 525 590 (d) Cachexia 3 8 — 11 — 158 193 (e) Blackwater — 1 — 1 — 4 2 6. Small-pox:— Alastrin — — — — — — 54 50 8. Scarlet Fever — — — — — 8 3- 9. Whooping Cough — — — — — 8 3- 9. Whooping Cough — 3 — 3 — 10 7 11. Influenza 41 1 41 — 530 352 12. Miliary Fever — — — — — — — — — — — — — — — — —	3. Relapsing Fever	-		_			_	
(a) Tertian 4 311 3 315 2 7,835 7,194 (b) Quartan 1 78 — 79 1 435 409 (c) Aestivo-autumnal — 23 1 23 — 525 590 (d) Cachexia 3 8 — 11 — 158 193 (e) Blackwater — 1 — 1 — 4 2 6. Small-pox:— — </td <td>4. Undulant Fever</td> <td>_</td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td>_</td>	4. Undulant Fever	_				_		_
(b) Quartan	5. Malaria :—							
(c) Aestivo-autumnal	(a) Tertian	4	311	3	315	2	7,835	7,194
(d) Cachexia	(b) Quartan	1	78		79	1	435	409
(e) Blackwater — 1 — 1 — 4 2 6. Small-pox:— —	(c) Aestivo-autumnal		23	1	23	_	525	590
6. Small-pox:— Alastrin	(d) Cachexia	3	8	-	11	_	158	193
Alastrin	(e) Blackwater	_	1		1		4	2
7. Measles	6. Small-pox:—							
8. Scarlet Fever	Alastrin	_		_	_	_	_	
9. Whooping Cough	7. Measles	_		_		_	54	50
10. Diphtheria	8. Scarlet Fever	_		_	-		8	3.
11. Influenza	9. Whooping Cough		_	<u> </u>	_	_	315	297
12. Miliary Fever	10. Diphtheria ·· ··	. —	3	-	3		10	7
13. Mumps	11. Influenza		41	1	41		530	352
14. Cholera	12. Miliary Fever		_	-	—	_	_	
15. Epidemic diarrhœa	13. Mumps		1	_	1		36	18
16. Dysentery :— (a) Amœbic	14. Cholera	. —	_	-	-		—	
(a) Amœbic - 4 2 4 - 9 15 (b) Bacillary - 11 1 11 - 40 40 (c) Undefined or due to other causes - 10 - 10 - 44 40	15. Epidemic diarrhœa	_	_	_	_	-	_	_
(a) Americ	16. Dysentery:—							
(c) Undefined or due to other causes — 10 — 10 — 44 40	(a) Amæbic		4	2	4	_	9	15
causes — 10 — 10 — 44 40	(b) Bacillary	_	11	1	11		40	40
Carried forward 8 522 14 530 5 10,026 9,248	· /		10		10		44	40
	Carried forward	. 8	522	14	530	5	10,026	9,248

		Iz	N-PATIEN	ITS		OUT-PA	TIENTS
Diseases	Remaining in Hospital at end of 1930	Yearly Admis- sions	y Total	Total Cases treated	Remaining in Hospital at end of 1931	Male	Female
	in H	1			at m	1	1
Brought forward I. EPIDEMIC, ENTEMIC AND INFECTIOUS	8	522	14	530	5	10,026	9,248
DISEASES—continued. 17. Plague:— (a) Bubonic						-	
(b) Pneumonic	_	_					
(c) Septicæmic	-		_	_		_	_
(d) Undefined	_	_		_	_	_	_
18. Yellow Fever	_	_	_			_	_
19. Spirochætosis		_		_	_	_	_
Ictero-hæmorrhagica 20. Leprosy	=	_			_	$\frac{}{3}$	3
21 . Erysipelas		20		20	_	39	42
22. Acute Poliomyelitis	1	_	_	1	_	5	2
23. Encephalitis Lethargica	_		_	_	_	4	
24. Epidemic Cerebro-spinal Fever	_	3	2	3		_	1
25. Other Epidemic Diseases:— (a) Rubeola (German Measles)	_		_		_	1	2
(b) Varicella (Chicken-Pox)	_	_	_		_	64	84
(c) Kala-azar	_				_	2	1
(d) Phlebotomus Fever	_	_	_	_	_		_
(e) Dengue	_	_			_	_	-
(f) Epidemic Dropsy	_	_	_		<u> </u>		-
(g) Yaws		_	_	_	_ }	-	
(h) Trypanosomiasis	_			_	_		_
26 . Glanders				- 1	_	8	7
27. Anthrax	—	10	1	10	_	18	7
28. Rabies		_	_	-	_	_	_
29. Tetanus	—	8	2	8		2	4
30. Mycosis	_	1		1	_	_	
31. Tuberculosis, Pulmonary and Laryngeal	18	78	17	96	28	179	88
32. Tuberculosis of the Meninges or Central Nervous System	_	6	4	6	_	1	1
33. Tuberculosis of the Intestines or Peritoneum	_	21	3	21	1	8	7
34. Tuberculosis of the Vertebral Column	2	13	_	15	$\frac{2}{2}$	13	3
35. Tuberculosis of Bones and Joints	3	35	1	38	8	44	16
Carried forward	32	717	44	749	44	10,417	9,516

		In		OUT-PATIENTS			
Dis eas es	Remaining in Hospital at end of 1930	Admis-	Total Deaths	Total Cases treated	Remaining in Hospital at end of 1931	Male	Female.
	at in R	sions			at in H		
Brought foward I. EPIDEMIC, ENDEMIC, AND INFECTIOUS DISEASES—continued.	32	717	44	749	44	10,417	9,516
36. Tuberculosis of other organs:— (a) Skin or Subcutaneous Tissue (Lupus)		11		11		4	. 6
(b) Bones		4		4		1	3
		9	9	9		15	11
(c) Lymphatic System			2			$\frac{13}{2}$. 11
(d) Genito-urinary	-	8		8			_
(e) Other organs	-	1		1		1	_
37. Tuberculosis disseminated:— (a) Acute		_	_		_	10	4
(b) Chronic		_	_	_		7	12.
38. Syphilis:— (a) Primary	. 1	18	2	19		62	11
(b) Secondary	. 2	5	_	7		379	258
(c) Tertiary	. 1	2	1	3		9	11
(d) Hereditary		_				1	1
(e) Period not indicated .		2		2		5	3
39. Soft Chancre	. 1	5	_	6		2	2
40. A.—Gonorrhœa & its complication	s 5	153	1	158	8	1,229	982
B.—Gonorrhœal Ophthalmia .		_	_		_		
C.—Gonorrhœal Arthritis		1		1	_	_	
D.—Granuloma Venereum		3		3		1	
41. Septicæmia · · · ·		13	7	13	1	15	12
42. Other Infectious Diseases:— Trypanosomiasis		_	_				
II. GENERAL DISEASES NOT MENTIONE	D						
ABOVE. 43. Cancer or other malignant Tumour of the Buccal Cavity		7		9	2	2	2
44. Cancer or other malignant Tumour of the Stomach or Liver .		13	2	14		6	6
45. Cancer or other malignant Tumour of the Peritoneum Intestines	s,					2	1
Rectum	-	5	1	5		2	1
46. Cancer or other malignant Tumour of the Female Genital Organs.		42	6	44	2	_	22
Carried forward	. 47	1,019	66	1,066	57	12,170	10,863

		In-Patients				OUT-PATIENTS		
Diseases	Remaining in Hospital at end of 1930	Yearly Admis- sions	Total Deaths	Total Cases treated	Remaining in Hospital at end of 1931	Male	Female	
Brought forward II. GENERAL DISEASES NOT MENTIONED	47	1,019	66	1,066	57	12,170	10,863	
47. Cancer or other malignant Tumours of the Breast	_	12		12	1		2	
48. Cancer or other malignant Tumours of the Skin	1	15		16		25	18	
49. Cancer or other malignant Tumours of Organs not specified		32	1	32	7	4	6	
50. Tumours non-malignant	1	46		47		65	61	
51. Acute Rheumatism	2	64		66		513	626	
52. Chronic Rheumatism	2	28		30	2	471	692	
53. Scurvy (including Barlow's Disease	_					1	1	
54. Pellagra	_	_		_	_	_		
55. Beri-Beri		_	_					
56. Rickets	~					5	3	
57. Diabetes (not including Insipidus)	_	4	1	4	1	13	3	
58. Anæmia :— (a) Pernicious	_	3	2	3		113	162	
(b) Other Anæmias & Chlorosis	_	14	2	14	1	640	1,297	
59. Diseases of the Pituitary Body						2		
60. Diseases of the Thyroid Gland:— (a) Exophthalmic Goitre		1		1	_	2	3	
(b) Other diseases of the Thyroid Gland, Myxoedema	_	7		7		1	4.	
61. Diseases of the Para-Thyroid Glands		_				3	2	
62. Diseases of the Thymus	_		_			2	1	
63. Diseases of the Supra-Renal Glands		1		1		2	3	
64. Diseases of the Spleen	1	9	1	10		314	199	
65. Leukæmia : (a) Leukæmia							s	
(b) Hodgkin's Disease	_	_			_	_	1	
66. Alcoholism	_	1		1		. 2	_	
67. Chronic poisoning by mineral substances (lead, mercury, etc.)		3	1	3	•		_	
68. Chronic poisoning by organic substances (Morphia, Cocaine, etc.)				_				
Carried forward	'54	1,259	74	1,313	69	14,348	13,947	

		ln	-Patien	TS		OUT-PA	TIENTS
Diseases	Remaining in Hospital at end of 1930	Yearly Admissions	1	Total Cases treated	Remaining in Hospital at end of 1931	Male	Female
Brought forward II. GENERAL DISEASES NOT MENTIONED ABOVE—continued. 69. Other General Diseases:—	54	1,259	74	1,313	69	14,348	13,947
Auto-intoxication	:			_		3	2
Purpura Hæmorrhagica		2	. —	2		7	3
Hæmophilia		1	1	1	_	5	4
Diabetes Insipidus		3	_	3		10	2
III. AFFECTIONS OF THE NERVOUS SYSTEM AND ORGANS OF THE SENSES.		•					
70. Encephalitis (not including Encephalitis Lethargica)				-			_
71. Meningitis (not including Tuber- culous Meningitis or Cerebro- spinal Meningitis)		10	4	10		4	1
72. Locomotor Ataxia	_	_		_		2	
73. Other affections of the Spinal Cord		2		, 2		2	1
74. Apoplexy:— (a) Hæmorrhage		5	1	5	_	5	4
(b) Embolism		_	_			_	
(c) Thrombosis						1	1
75. Paralysis:— (a) Hemiplegia	1	7	1	8		36	32
(b) Other Paralyses		7	-	7		30	12
76. General Paralysis of the Insane			-	_		1	
77. Other forms of Mental Alienation		1	_	1		. 4	3
78. Epilepsy	_	12	_	12	-	80	35
79. Eclampsia, Convulsions (non-puer-peral) 5 years or over						1	2
80. Infantile Convulsions			-			8	30
81. Chorea · · · · · · ·	_		-	_		2	3
82. A.—Hysteria · · · · ·	_	16	_	16		596	776
B.—Neuritis	-	12		12	1	1,215	770
C.—Neurasthenia · · · ·		21	_	21		191	318
83. Cerebral Softening	_						_
84. Other affections of the Nervous System, such as Paralysis Agitans		1	1	1		143	140
Carried forward	55	1,359	82	1,414	70	16,694	16,059

Brought forward Section Cases Cases			Iı	n-Patien	vis		OUT-PATIENTS			
III. AFFECTIONS OF THE NEWOUS SYSTEM AND ORANS OF THE SENSISS—condd. 85. Affections of the Organs of Vision: (a) Diseases of the eye (b) Conjustivitis (c) Trachoma 1 28 29 1 4,443 3,552 (d) Tumours of the Eye 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Diseases	Remaining in Hospital at end of 1930	Admis-		Cases	Remaining in Hospital at end of 1931	Male	Female		
(a) Discascs of the eye	III. AFFECTIONS OF THE NERVOUS SYSTEM AND ORGANS OF THE SENSES—contd.	55	1,359	82	1,414	70	16,694	16,059		
Simus	 (a) Diseases of the eye (b) Conjuctivitis (c) Trachoma (d) Tumours of the Eye 	_	$\begin{array}{c c} 3\\28\\1\end{array}$		$\begin{bmatrix} 3\\29\\1 \end{bmatrix}$		2,566 4,443 16	2,392 3,352 12		
SYSTEM. <		ł	43		45	1	818	699		
38. Acute Endocarditis or Myocarditis — 4 — 4 — 34 41 89. Angina Pectoris . . — — — — 4 2 90. Other Discases of the Heart:— (a) Valvular:— — — — — — 4 1 4 — 5 15 Mortic . . — 4 1 4 — 5 15 Tricuspid . . — — — — — — 2 Pulmonary . . — — — — — — 2 2 Pulmonary . . — 24 6 24 — 45 45 91. Discases of the Arteries:— . — 2 1 — 1 — 2 2 2 (b) Arterio Sclerosis . — 5 1 5 — 156 159 (c) Other deseases . 1 1 — 2	System.						5	1		
89. Angina Pectoris			4		4					
90. Other Diseases of the Heart:— (a) Valvular:— Mitral	· ·	_			_					
Mitral										
Tricuspid		_	34	14	34	1	41	71		
Pulmonary. - - - - 1 4 (b) Myocarditis. - 24 6 24 - 45 45 91. Diseases of the Arteries:—	Aortie		4	1	4	-	5	15		
(b) Myocarditis. — 24 6 24 — 45 45 91. Diseases of the Arteries:—	Tricuspid		_	<u> </u>				2		
91. Diseases of the Arteries:— (a) Aneurism	Pulmonary			_	_		1	4		
(a) Aneurism — 1 — 1 — 2 2 (b) Arterio-Sclerosis — 5 1 5 — 156 159 (c) Other deseases 1 1 — 2 — 2 — 92. Embolism or Thrombosis (noncerebral) 1 — — 1 —	(b) Myocarditis	_	24	6	24	_	45	45		
(c) Other deseases 1 1 — 2 — 2 — 92. Embolism or Thrombosis (noncerebral) 1 — — 1 — — — — — 93. Diseases of the Veins:— Hæmorrhoids 1 16 1 17 — — — — 35 Varicose Veins 1 16 — 17 1 60 44 Phlebitis., 1 2 1 3 — 3 5 94. Diseases of the Lymphatic System:- — 9 — 9 — 28 19 Lymphadenitis Bubo (nonspecific) 2 12 — 14 — 60 78 95. Hæmorrhage of undetermined cause — 6 — 6 — 6 — 8 9 96. Other affections of the Circulatory System — — — — — 8 9 <td></td> <td></td> <td>1</td> <td></td> <td>1</td> <td>_</td> <td>2</td> <td>2</td>			1		1	_	2	2		
92. Embolism or Thrombosis (noncerebral)	(b) Arterio-Sclerosis	_	5	1	5		156	159		
cerebral)	(c) Other deseases \dots	1	1	-	2		2			
Hæmorrhoids					1			_		
Phlebitis 1 2 1 3 — 3 5 94. Diseases of the Lymphatic System:-		1	16	1	17		75	35		
94. Diseases of the Lymphatic System: — 9 — 9 — 28 19 Lymphadenitis Bubo (non-specific) — 2 12 — 14 — 60 78 95. Hæmorrhage of undetermined cause — 6 — 6 — 37 15 96. Other affections of the Circulatory System — — — — 8 9	Varicose Veins	1	16	_	17	1	60	44		
Lymphangitis - 9 - 9 - 28 19 Lymphadenitis Bubo (nonspecific) 2 12 - 14 - 60 78 95. Hæmorrhage of undetermined cause - 6 - 6 - 37 15 96. Other affections of the Circulatory System - - - - - - 8 9	Phlebitis	1	2	1	3		3	5.		
Lymphadenitis Bubo (non-specific)	94. Diseases of the Lymphatic System:									
specific) 2 12 — 14 — 60 78 95. Hæmorrhage of undetermined cause — 6 — 6 — 37 15 96. Other affections of the Circulatory System — — — — — 8 9	Lymphangitis		9	_	9		28	19		
System	specific)			_	1					
Carried forward 68 1,609 106 1,677 75 26,243 24,235		_	_	_		_	8	9		
	Carried forward	68	1,609	106	1,677	75	26,243	24,235		

•		Iı	N-PATIEN	NTS		OUT-PAT	TIENTS
Diseases	Remaining in Hospital	Yearly Admissions	1	Total Cases treated	Remaining in Hospital at end of 1931	Male	Female
Brought forward V. Affections of the Respiratory	. 68	1	106	1,677	75	26,243	24,235
System. 97. Diseases of the Nasal Passages: Adenoids		6		6		47	42
Polypus		. 1	_	1		7	3
Rhinitis	-	10	_	10		80	50
Coryza	-	- 30		30	1	2,253	1,403
98. Affections of the Larynx :— Laryngitis		- 2	_	2		46	35
99. Bronchitis:— (a) Acute	. 2	97	1	99	2	1,675	1,458
(b) Chronic \dots	. 2	2 46		48	_	773	651
100. Broncho-Pneumonia		- 41	7	41	_	122	96
101. Pneumonia :— (a) Lobar		5 80	20	85	7	136	75
(I) The alarmified		_ 2	-	2	_	29	12
102. Pleurisy, Empyema		37	2	40	1	88	71
100 G the fibe Lange	–	- 1	1	1	1	117	153
104. Gangrene of the Lungs	–	- 3		3	-	_	
105. Asthma	–	- 7	2	7	1	122	121
106. Pulmonary Emphysema	–	- 1	_	1	-	5	2
107. Other affections of the Lungs:—							
Pulmonary Spirochætosis	-	- 1	-	1		4	1
VI. DISEASES OF THE DIGESTIVE SYSTE	м.						
108. A.—Diseases of the Teeth or Gums	:-						
Caries, Pyorrhœa, etc.		- 3		3	_	120	110
B.—Other affections of the Mouth:	_	$\begin{bmatrix} 1 & 1 \end{bmatrix}$		2		120	149
Stomatitis Glossitis, etc	-	_ _	_		,	12	15
100. Illicotions	or						
$egin{array}{cccc} oldsymbol{ ext{Tonsillitis}} & \cdots & \cdots & & & & & & & & & & & & & & &$	-	$\begin{bmatrix} 1 & 58 \\ - & 4 \end{bmatrix}$	i	$\begin{array}{ c c c }\hline 59\\ 4\\ \end{array}$	1	557 84	457 68
110. Affections of the Oesophagus		_ 2	_	2	_	2	1
111. A.—Ulcer of the Stomach	• •	1 8	_	9	_	34	8
B.—Ulcer of the Duodenum		- 4	1	4	1	6	
Carried forward	8	${3}$ 2,054	140	2,137	90	32,682	29,216

		I	N-PATIE	NTS		OUT-PA	TIENTS
Diseases	Remaining in Hospital at end of 1930		y Total	Total Cases	Remaining in Hospital at end of 1931	Male	Female
,	Rem in Hc at end	Admis- sions	Deaths	treated	Rem in Hc at end		
Brought forward VI. DISEASES OF THE DIGESTIVE SYSTEM—continued.	. 83	2,054	140	2,137	90	32,682	29,216
112. Other affections of the Stomach:—Gastritis	1	85	1	86	3	1,142	1,640
Dyspepsia, etc	_	47	_	47	_	1,451	2,337
113. Diarrhœa and Enteritis:— Under two years	_	1	1	1		766	555
114. Diarrhea and Enteritis:—		,					
Two years and over	2	84	2	86	2	1,139	864
Colitis	_	16	_	16	2	133	148
Ulceration	-	2	_	2	-	_	_
114a. Sprue	-	_	: 	_	-	2	3
115. Ankylostomiasis	_		_	_	-	_	-
116. Diseases due to Intestinal Parasites: (a) Cestoda (Tænia)		—	<u>-</u>	<u> </u>	_	22 —	28 —
kylostoma):— Ascaris	_	<u>.</u>	: <u> </u>	_	_	300	222
Trichocephalus dispar	_		_	_	_	_	_
Trichina	_	_	_		_	_	
Dracunculus	_				_	_	_
Strongylus	_	_	_	_	_	1	
Oxyuris	_	2	_	2		50	89
(d) Coccidia	_			_ _		-4	1 4 12
117. Appendicitis	3	164	5	167	6	100	116
118. Hernia	7	199	7	206	$_{2}$	474	60
119. A.—Affections of the Anus Fistula, etc		38	1	38	3	42	15
B.—Other affections of the Inte-							
$ ext{stines}:$ $ ext{Enteroptosis} \dots \dots \dots$	_	9	1	9	_	2	12
Constipation	_	15	_	15	_	884	920
120. Acute Yellow Atrophy of the Liver	-					_	-
121. Hydatid of the Liver	1	18	3	19	2	5	4
Carried forward	97	2,734	161	2,831	110	39,206	36,246

			I	N-PATIE	NTS		OUT-PATIENTS		
Diseases		uing ital 1930	Yearly	7 Total	Total	ning ital 1931			
		Remaining in Hospital at end of 1930	Admissions	Deaths	Cases	Remaining in Hospital at end of 1931	Male	Female	
Brought forward VI. DISEASES OF THE DIGESTIVE SYSTEM—continued.	• •	97	2,734	161	2,831	110	39,206	36,246	
122. Cirrhosis of the Liver:—									
(a) Alcoholic	• •		3	1	3		8	2	
(b) Other forms	• •		3		3	_	13	7	
123. Biliary Calculus	• •	_	_				4	7	
124. Other affections of the Liver:—									
Abscess	• •		2	2	2		23	10	
Hepatitis	• •	1	25	2	26		123	103	
Colecystitis	• •	1	4		5		23	39	
Jaundice	• •		12	- .	12		46	45	
125. Diseases of the Pancreas	• •					_	1	_	
126. Peritonitis (of unknown cause)	• •		12	6	12	1	9	18	
127. Other affections of the Digestive System	7е		6	3 ,	6		19	13	
VII. DISEASES OF THE GENITO-URINA SYSTEM (NON-VENEREAL).	RY					9	,		
128. Acute Nephritis	• •		25	2	25	2	98	99	
129. Chronic	• •	2	11	1	13	2	65	91	
130. A.—Chyluria	• •						1	2	
B.—Schistosomiasis	• •					<u> </u>	1	_	
131. Other affections of the Kidneys	:					And the state of t			
Pyelitis, etc	• •	_	3		3		13	10	
132. Urinary Calculus	• •	1	25	1	26	1	58	29	
133. Diseases of the Bladder:—						4			
Cystitis ··	• •	1	20	1	21	1	102	60	
134. Diseases of the Urethra:—									
(a) Stricture	• •	_	14	. 1	14		19	1	
(b) Other \cdots	• •	_	8	1	8	1	12	6	
135. Diseases of the Prostate:—									
Hypertrophy	• •	1	4	_	. 5	-	8	_	
Prostatitis	• •	1	21	1	22	1	20	_	
Carried forward		105	2,932	183	3,037	117	39,872	36,788	

		In-Patients						OUT-PATIENTS	
Diseases		f 1930	Yearly Total		Total	ning ital f 1931			
	Remain	Remaining in Hospital at end of 1930	Admis- sions	Deaths	Cases	Remaining in Hospital at end of 193	Male	Female	
Brought forward VIII. DISEASES OF THE GENITO-URINAR SYSTEM (NON-VENEREAL)—cntd. 136. Diseases (non-Venereal) of the Genital Organs of Man:—	Y	05	2,932	183	3,037	117	39,872	36,788	
Epididymitis			2		2		13		
Orchitis	•		16	_	16		14	_	
Hydrocele	•	1	17		18	1	36	_	
Ulcer of Penis	-	_	4		4		10	_	
137. Cysts or other non-malignant Tomours of the Ovaries	1-	1	22		23		_	22	
138. Salpingitis:— Abscess of the Pelvis		_	30		30	. 1	_	64	
139. Uterine Tumours (non-malignant)		1	22	1	23		_	30	
140. Uterine Hæmorrhage (non-pue	r-	2	32	2	34	_	_	290	
141. A.—Metritis		5	54		59	1		337	
Amenorrhea	le	1	12 1 3 —	_ _ _	13 1 3 —	1 		29 47 187 14	
Abanas of Droom	r		5 15		5 15	2	=	71 22	
149 A Normal Labour	•	6	325	2	331	11	_	156	
(h) Fotonia Contation	y	4	68 1 30	$-\frac{1}{1}$	68 1 34	<u>-</u>	_	61 1 78	
144. Puerperal Hæmorrhage	•		7	0 —	7	1	_	13	
145. Other accidents of Parturition	•		3		3	_		10.	
146. Puerperal Septicæmia	•		17	9	17		_	23	
147. Phlegmasia Dolens	•		1	-	1	—		1	
148. Puerperal Eclampsia	•		_		_	_	-	3	
149. Ssquelæ of Labour	•					-	-	7	
150. Puerperal affections of the Breast	,		_					2	
Carried forward	. 1	26	3,619	199	3,745	136	39,975	38,256	

			In	OUT-PATIENTS				
Diseases		Remaining in Hospital at end of 1930		Total	Total Cases	Remaining in Hospital at end of 1931	Male	Female
		Rem in Ho at end	Admis- sions	Deaths	treated	Rem in Hc		
Brought forward IX. Affections of the Skin and Cellular Tissues.	• •	126	3,619	199	3,745	136	39,975	38,256
151. Gangrene	• •	2	15	4	17	2	20	16
152. Boil:— Carbuncle	• •	1	42		43	3	848	576
153. Abscess:— Whitlow	• •	1	14		15		119	61
Cellulitis	• •	10	136	3	146	4	922	506
154. A.—Tinea	• •		52		52	2	55	27
B.—Scabies	• •	_	9	-	9		273	197
155. Other Diseases of the Skin:— Erythema			7		7	_	197	146
Urticaria	• •		1		1	_	100	97
Eczema	• •	1	25		26	1	829	697
Herpes				_			37	23
Psoriasis			2	_	2	1	60	52
Elephantiasis	• •		1	_	1	_	_	_
Myiasis	• •			-	_	_	_	
Chigoes	• •			_	_		_	_
Cutaneous Leishmaniasis				_	_		_	-
X. Diseases of Bones and Organs Locomotion (other than Tuberculous). 156. Diseases of Bones:—	S OF							
Osteitis	• •	1	21	. 1	22	_	28	27
157. Diseases of Joints:— Arthritis	• •	1	33	_	34	_	163	158-
Synovitis	• •	1	1	_	2	1	13	4
158. Other Diseases of Bones of Org	ans		16		16	1	49	30
XI. MALFORMATIONS.								
159. Malformations:—	• •	1	7		8	_	-	_
Hydrocephalus	• •	_			_		2	1
Hypospadias	• •	_		_	_	—	.:	_
Spina Bifida, etc	• •		_	_	_	_	3	7
Carried forward	• •	145	4,001	207	4,146	151	43,694	40,881

	In-Patients					OUT-PATIENTS		
Diseases	Remaining in Hospital at end of 1930	Yearly	y Total	Total Cases treated	Remaining Hospital in at end of 1931	Male	Female	
	Rei in H at en	sions	Deaths		Rei Hos at en	1	1	
Brought forward XII. DISEASES OF INFANCY. 160. Congenital Debility	145	4,001	207	4,146	151	43,694	40,881	
161. Premature Birth	1	1		2	,	1	$\frac{3}{2}$	
162. Other affections of Infancy	1			1			3	
163. Infant neglect (infants of three months or over)			_	_		_	_	
XIII. AFFECTIONS OF OLD AGE.							•	
164. Senility:— Senile Dementia		4		4		4	1	
XIV. AFFECTIONS PRODUCED BY EXTERNAL CAUSES. 165. Suicide by Poisoning	_				_	1		
166. Corrosive Poisoning (intentional)		_				_1	_	
167. Suicide by Gas Poisoning	_	_				. —		
168. Suicide by Hanging or Strangula-							9	
tion	_		_	_	_	$\frac{1}{3}$	3 4	
170. Suicide by Firearms	_	-		_	'	،		
171. Suicide by cutting or stabbing Instruments		_					_	
172. Suicide by jumping from a height 173. Suicide by crushing		_			-		_	
173. Suicide by Gushing								
175. Food Poisoning:—								
Botulism 176. Attacks of poisonous animals :—			_			4	2	
Snake Bite	1	4	_	1	_	17	3 5	
177. Other accidental Poisonings	_	1	_	1		6	3	
178. Burns (by Fire)	_	11	3	11	_	84	68	
179. Burns (other than by Fire)		5	$\frac{2}{2}$	5		58	57	
180. Suffocation (accidental) 181. Poisoning by Gas (accidental)	,					2		
182. Drowning (accidental)							3	
183. Wounds (by Firearms, war excepted)	1	12	$\frac{}{2}$	13		18	1	
184. Wounds (by cutting or stabbing								
Instruments)	3	148	3	151		905	294	
185. Wounds (by Fall)	150	39	-	39	1 150	740	268	
Carried forward	152	4,227	218	4,379	152	45,548	41,606	

		In	OUT-PATIENTS				
Diseases	Remaining in Hospital at end of 1930	Yearly Admissions	Total	Total Cases treated	Remaining in Hospital at end of 1931	Male	Female
Brought forward XIV. Affections produced by External Causes—contd. 186. Wounds (in Mines or Quarries)	1	4,227	218	4,379	152	45,548	41 ,606
187. Wounds (by Machinery)	_	10	_	10	_	9	1
188. Wounds (crushing, e.g. railway accidents, etc	2	10		10		21 113 6	11 45 —
191. Executions of civilians by belli- gerents	_	_				150	 58
194. Exposure to Heat:— Heatstroke		$-\frac{2}{2}$		$\frac{1}{2}$	_	_ _ _	<u>-</u>
196. Electric Shock	. —		_			-	
197. Murder by Firearms	. –	1	1	1	_		_
198. Murder by cutting or stabbing Instruments	· —	b —	_		_	4	1
199. Murder by other means	. -		-			_	1
200. Infanticide (Murder of an infan under one year)	t —	-	_	_	_		
201. A.—Dislocation	i	11 9 92	<u>-</u>	11 9 102	$-\frac{1}{2}$	$\begin{bmatrix} & 41 \\ 53 \\ 72 \end{bmatrix}$	24 17 30
202. Other external Injuries	_	180	1	180	3	972	429
203. Deaths by Violence of unknown cause	. —			_	_	6	1
XV. Ill-defined Diseases. 204. Sudden Death (cause unknown) .	-	_			_	7	5
Oedema	. 1 . – . –	27 	$\frac{2}{1}$	28 	$\begin{array}{c c} & 1 \\ \hline 3 \\ \hline - \\ \hline - \\ \end{array}$	37 12 1,266 — 168 —	38 10 1,105 — 120 —
XVI. DISEASES, THE TOTAL OF WHICH HAVE NOT CAUSED TEN DEATHS.	•	-	_	-	_	-	18
Total ··	. 163	4,609	232	4,772	162	48,506	43,530

